

TSD File Inventory Index

Date: March 19, 2007

Initial: CM General

Facility Name:		Acme Benzene Storage (On Lake Site)	
Facility Identification Number:		LD 025 022997	
A.1 General Correspondence	<input checked="" type="checkbox"/>	B.2 Permit Docket (B.1.2)	<input type="checkbox"/>
A.2 Part A / Interim Status	<input checked="" type="checkbox"/>	.1 Correspondence	<input type="checkbox"/>
.1 Correspondence	<input checked="" type="checkbox"/>	.2 All Other Permitting Documents (Not Part of the ARA)	<input type="checkbox"/>
.2 Notification and Acknowledgment	<input checked="" type="checkbox"/>	C.1 Compliance - (Inspection Reports)	<input checked="" type="checkbox"/>
.3 Part A Application and Amendments	<input checked="" type="checkbox"/>	C.2 Compliance/Enforcement	<input checked="" type="checkbox"/>
.4 Financial Insurance (Sudden, Non Sudden)	<input type="checkbox"/>	.1 Land Disposal Restriction Notifications	<input type="checkbox"/>
.5 Change Under Interim Status Requests	<input type="checkbox"/>	.2 Import/Export Notifications	<input type="checkbox"/>
.6 Annual and Biennial Reports	<input type="checkbox"/>	C.3 FOIA Exemptions - Non-Releasable Documents	<input type="checkbox"/>
A.3 Groundwater Monitoring	<input type="checkbox"/>	D.1 Corrective Action/Facility Assessment	<input type="checkbox"/>
.1 Correspondence	<input type="checkbox"/>	.1 RFA Correspondence	<input type="checkbox"/>
.2 Reports	<input type="checkbox"/>	.2 Background Reports, Supporting Docs and Studies	<input type="checkbox"/>
A.4 Closure/Post Closure	<input type="checkbox"/>	.3 State Prelim. Investigation Memos	<input type="checkbox"/>
.1 Correspondence	<input type="checkbox"/>	.4 RFA Reports	<input type="checkbox"/>
.2 Closure/Post Closure Plans, Certificates, etc	<input type="checkbox"/>	D. 2 Corrective Action/Facility Investigation	<input type="checkbox"/>
A.5 Ambient Air Monitoring	<input type="checkbox"/>	.1 RFI Correspondence	<input type="checkbox"/>
.1 Correspondence	<input type="checkbox"/>	.2 RFI Workplan	<input type="checkbox"/>
.2 Reports	<input type="checkbox"/>	.3 RFI Program Reports and Oversight	<input type="checkbox"/>
B.1 Administrative Record	<input type="checkbox"/>	.4 RFI Draft /Final Report	<input type="checkbox"/>
	<input type="checkbox"/>	5. RFI QAPP	<input type="checkbox"/>

Total -

.6 RFI QAPP Correspondence		.8 Progress Reports	
.7 Lab Data, Soil-Sampling/Groundwater		D.5 Corrective Action/Enforcement	
.8 RFI Progress Reports		.1 Administrative Record 3008(h) Order	
.9 Interim Measures Correspondence		.2 Other Non-AR Documents	
.10 Interim Measures Workplan and Reports		D.6 Environmental Indicator Determinations	
D.3 Corrective Action/Remediation Study		.1 Forms/Checklists	
.1 CMS Correspondence		E. Boilers and Industrial Furnaces (BIF)	
.2 Interim Measures		.1 Correspondence	
.3 CMS Workplan		.2 Reports	
.4 CMS Draft/Final Report		F Imagery/Special Studies (Videos, photos, disks, maps, blueprints, drawings, and other special materials.)	
.5 Stabilization		G.1 Risk Assessment	
.6 CMS Progress Reports		.1 Human/Ecological Assessment	
.7 Lab Data, Soil-Sampling/Groundwater		.2 Compliance and Enforcement	
D.4 Corrective Action Remediation Implementation		.3 Enforcement Confidential	
.1 CMI Correspondence		.4 Ecological - Administrative Record	
.2 CMI Workplan		.5 Permitting	
.3 CMI Program Reports and Oversight		.6 Corrective Action Remediation Study	
.4 CMI Draft/Final Reports		.7 Corrective Action/Remediation Implementation	
.5 CMI QAPP		.8 Endangered Species Act	
.6 CMI QAPP Correspondence		.9 Environmental Justice	

Note: Transmittal Letter to Be Included with Reports.

Comments: *Consolidated into*

LAWRENCE W. BIERLEIN, P.C.

LAW OFFICES

910 SEVENTEENTH STREET, N. W.

WASHINGTON, D.C. 20006

(202) 659-9475

August 4, 1980

To: Members, National Barrel & Drum Association

Re: Notification to EPA of Hazardous Waste Activity

Every member of the drum reconditioning industry should attach this memo to their notification to EPA of involvement in hazardous waste activity.

EPA unofficially has advised this industry that an "empty" container, that formerly contained a material that would fall within the classification of hazardous waste, is not itself a hazardous waste unless the material is one of those listed in new Section 261.33(e).

EPA has refused to publish a formal acknowledgement of this position in the Federal Register, with any explanation of the term "empty," before the mandatory notification date of August 18.

Prudent business practice, therefore, compels every handler of "empty" packaging to give notice by August 18, 1980, of direct involvement in the generation, transportation, storage, treatment and disposal of every conceivable material that might be handled. EPA's failure to provide essential clarification in a timely manner forces this approach, even though many who give notice may not in fact be so engaged in waste handling. Where the regulations and the agency leave only doubt, commercial survival demands notification.

Sincerely,



Lawrence W. Bierlein
General Counsel

5 MAY 1983

5HW

Mr. Martin J. Friedman
Rosenthal & Schanfield
Mid-Continental Plaza- Suite 4620
55 East Monroe Street
Chicago, Illinois 60603

ILD 025 022 997

Re: Freedom of Information Act Request
(5) RIN-219-83

Dear Mr. Friedman:

This is in response to your letter received April 21, 1983, and to your telephone conversation on April 27, 1983, with Ms. April Katsura of my staff.

We are enclosing copies of the Notification of Hazardous Waste Activity for the five facilities identified on the enclosed list (List 1). Two of the five facilities have also submitted an Application for a Hazardous Waste Permit--Part A. We have enclosed copies of those applications and have identified the two facilities on List 1. These two facilities have requested withdrawals of their Part A's. Copies of the withdrawal letters are enclosed with the Part A's.

You also requested information on the status of Notification and Part A submittals for the facilities of six companies. This information has been summarized on the enclosed list (List 2).

There is no charge for search time or duplication because the total fees are less than \$10.00.

Please contact Ms. Katsura at 886-6134, if you have any questions.

Sincerely,

Basil G. Constantelos, Director
Waste Management Division

Enclosures

cc: Facilities identified on List 1 and List 2
Illinois Environmental Protection Agency
Wisconsin Department of Natural Resources

bcc: Notification/Part A files
A. Brash, OPA
C. Kavcic, ME

List 1: Enclosures

1. Meyer Steel Drum Inc.
3201 S. Millard St.
Chicago, IL 60623 (N + A)
ILD081037772
2. Meyer Steel Drum Inc.
5303 S. Keeler Ave.
Chicago, IL 60632 (N)
ILD000815308
3. Allied Hastings Barrel Drum Service
915 W. 37th St.
Chicago, IL 60609 (N)
ILD005166483
4. Hansen-Sterling Drum Co.
8101 S. Wallace St.
Chicago, IL 60620 (N)
ILD000814814
5. Hansen-Sterling Drum Co.
610 W. 81st St.
Chicago, IL 60620 (N + A)
ILD025316126

N = Notification
A = Part A

List 2: Status of Specific Facilities

1. Kitzinger Cooperage (N)
2500 E. Norwich St.
Milwaukee, WI 53207
WID000808543
2. Kitzinger Cooperage (N)
2615 E. Norwich
Milwaukee, WI 53207
WID000808535
3. Kitzinger Cooperage (N & A)
2529 E. Norwich St.
Milwaukee, WI 53207
WID023402639
4. Acme Barrel Co. (N)
1333-1337 & Rear S. Oaklev Ave.
Chicago, IL 60608
ILD000810317
5. Acme Barrel Co. (N)
1900-2000 W. Hastings
Chicago, IL 60608
ILD000810325
6. Acme Barrel Co. (N & W)
2300 W. 13th St.
Chicago, IL 60608
ILD025022997
7. Acme Barrel Co. (N & W)
700-824 E. 133th St.
Chicago, IL 60627
ILD000810309
8. Higgins Bros. Inc. (N)
1845 W. 31st Place
Chicago, IL 60608
ILD057843484
9. McCook Drum & Barrel Co. Inc. (N)
8900 W. 53rd St.
McCook, IL 60525
ILD025575374

10. American Steel Container Co. (N & W)
4445 W. 5th Ave.
Chicago, IL 60624
ILD093163004
11. Sterling Drum (not identified in U.S. EPA data)

N = Notification received
A = Part A received
W = Part A received and subsequently withdrawn

26 JAN 1983

Mr. Martin J. Friedman
Rosenthal & Schanfield
Mid-Continental Plaza- Suite 4620
55 East Monroe Street
Chicago, Illinois 60603

Re: Freedom of Information Act Request
No. R.I. 14-83

Dear Mr. Friedman:

This is in response to your letter dated January 5, 1983, and to your telephone conversation of January 10, 1983, with Ms. April Katsura of my staff.

In your conversation, Ms. Katsura explained that we have received the Part A of the Application for a Hazardous Waste Permit for three of the seven facilities in your request. The facilities are as follows:

Acme Barrel Company
2300 W. 13th Street
Chicago, IL 60608
I.D. # ILD025022997

American Steel Container
4445 W. 5th Avenue
Chicago, IL
I.D. # ILD093169004

Kitzinger Cooperage Corporation
2529 E. Norwich Street
Milwaukee, WI 53207
I.D. # WID023502639

Ms. Katsura also explained that we have received a withdrawal request from one of the three facilities, American Steel Container.

Per your conversation, we are enclosing copies of the Part A's for Acme Barrel Company and Kitzinger Cooperage Corporation. There is no charge for search time or duplicating because the total fees are less than \$10.00.

Please contact Ms. Katsura at 886-6134, if you have questions.

Sincerely,

Basil G. Constantelos, Director
Waste Management Division

Enclosures

cc: Acme Barrel Company
American Steel Container
Kitzinger Cooperage Corporation
Illinois Environmental Protection Agency
Wisconsin Department of Natural Resources

bcc: Ann Brash (Xeroxed copy of letter &
control slip)
✓ Part A Files



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V

111 West Jackson Blvd.
CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:
RCRA ACTIVITIES

APR 15 1982

Jordan Pearlman, Vice President
ACME Barrel Company
2300 West 13th Street
Chicago, Illinois 60608

RE: Interim Status Acknowledgement
FACILITY NAME: ACME BARREL COMPANY

USEPA ID No. ILD 025 022 997

Dear Mr. Pearlman:

This is to acknowledge that the U.S. Environmental Protection Agency (USEPA) has completed processing your Part A Hazardous Waste Permit Application. It is the opinion of this office that the information submitted is complete and that you, as an owner or operator of a hazardous waste management facility, have met the requirements of Section 3005(e) of the Resource Conservation and Recovery Act (RCRA) for Interim Status. However, should USEPA obtain information which indicates that your application was incomplete or inaccurate, you may be requested to provide further documentation of your claim for Interim Status. Our opinion will be reevaluated on the basis of this information.

As an owner or operator of a hazardous waste management facility, you are required to comply with the interim status standards as prescribed in 40 CFR Parts 122 and 265, or with State rules and regulations in those States which have been authorized under Section 3006 of RCRA. In addition, you are reminded that operating under interim status does not relieve you from the need to comply with all applicable State and local requirements.

The printout enclosed with this letter identifies the limit(s) of the process design capacities your facility may use during the interim status period. This information was obtained from your Part A Permit application. If you wish to handle new wastes, to change processes, to increase the design capacity of existing processes, or to change ownership or operational control of the facility, you may do so only as provided in 40 CFR Sections 122.22 and 122.23.

As stated in the first paragraph of this letter, you have met the requirements of 40 CFR Part 122.23; your facility may operate under interim status until such time as a permit is issued or denied. This will be preceded by a request from this office or the State (if authorized) for Part B of your application. Please contact Arthur Kawatachi of my staff at (312) 886-7449, if you have any questions concerning this letter or the enclosure.

Sincerely yours,

Karl J. Klepitsch, Jr., Chief
Waste Management Branch

GRN 4/15/82

Enclosure

cc: Philip A. Pearlman



**ACKNOWLEDGEMENT OF NOTIFICATION
OF HAZARDOUS WASTE ACTIVITY
(VERIFICATION)**

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER

ILD025022997

REACKNOWLEDGEMENT

ACME BARREL COMPANY
2300 W 13TH ST
CHICAGO

IL 60608

INSTALLATION ADDRESS

2300 W 13TH ST
CHICAGO

IL 60608



INSTRUCTIONS: If you received a preprinted label, affix it in the space at left. If any of the information on the label is incorrect, draw a line through it and supply the correct information in the appropriate section below. If the label is complete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted label, complete all items. "Installation" means a single site where hazardous waste is generated, treated, stored and/or disposed of, or a transporter's principal place of business. Please refer to the **INSTRUCTIONS FOR FILING NOTIFICATION** before completing this form. The information requested herein is required by law (*Section 3010 of the Resource Conservation and Recovery Act*).

INSTALLATION'S EPA I.D. NO.	ILD025023997
I. NAME OF INSTALLATION	ACME BARREL CO 2300 W 13TH ST CHICAGO, IL 60608
II. INSTALLATION MAILING ADDRESS	00
III. LOCATION OF INSTALLATION	2300 W 13TH ST CHICAGO, IL 60608

000070 AUG 18 80

COMMENTS

[illegible]

II. INSTALLATION MAILING ADDRESS

		STREET OR P.O. BOX																							
C	3																								
15	16																					45			
		CITY OR TOWN																		ST.		ZIP CODE			
C	4																								
15	16																			40		41 42 47		- 1 5	

		STREET OR ROUTE NUMBER																											
C	5																												
15	16																									45			
		CITY OR TOWN																								ST.		ZIP CODE	
C	6																												
15	16																									40 41 42 47		5	

[illegible]

A. NAME OF INSTALLATION'S LEGAL OWNER																									
C																									
8	P	H	I	L	I	P	A	P	E	A	R	L	M	A	N										
13	15																								

B. TYPE OF OWNERSHIP (enter the appropriate letter into box)		VI. TYPE OF HAZARDOUS WASTE ACTIVITY (enter "X" in the appropriate box(es))	
F = FEDERAL M = NON-FEDERAL	M	<input checked="" type="checkbox"/> 57 A. GENERATION	<input checked="" type="checkbox"/> 58 B. TRANSPORTATION (complete item VII)
	KC	<input checked="" type="checkbox"/> 59 C. TREAT/STORE/DISPOSE	<input type="checkbox"/> 60 D. UNDERGROUND INJECTION

VII. MODE OF TRANSPORTATION (transporters only - enter "X" in the appropriate box(es))

☐ A. AIR ☐ B. RAIL ☒ C. HIGHWAY ☐ D. WATER ☐ E. OTHER (specify):

VIII. FIRST OR SUBSEQUENT NOTIFICATION

Mark "X" in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your Installation's EPA I.D. Number in the space provided below.

<input checked="checked" type="checkbox"/> A. FIRST NOTIFICATION	<input type="checkbox"/> B. SUBSEQUENT NOTIFICATION (complete item C)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="10" style="text-align: center; padding: 2px;">C. INSTALLATION'S EPA I.D. NO.</th> </tr> <tr> <td style="padding: 2px;">1</td> <td style="padding: 2px;">L</td> <td style="padding: 2px;">D</td> <td style="padding: 2px;">0</td> <td style="padding: 2px;">2</td> <td style="padding: 2px;">5</td> <td style="padding: 2px;">0</td> <td style="padding: 2px;">2</td> <td style="padding: 2px;">2</td> <td style="padding: 2px;">9</td> <td style="padding: 2px;">9</td> </tr> </table>	C. INSTALLATION'S EPA I.D. NO.										1	L	D	0	2	5	0	2	2	9	9
C. INSTALLATION'S EPA I.D. NO.																							
1	L	D	0	2	5	0	2	2	9	9													

IX. DESCRIPTION OF HAZARDOUS WASTES

Please go to the reverse of this form and provide the requested information.

AUG 15 1990

S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
W	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

IX. DESCRIPTION OF HAZARDOUS WASTES (continued from front)

A. HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from non-specific sources your installation handles. Use additional sheets if necessary.

1 F001	2 F002	3 F003	4 F004	5 F005	6 F017
7	8	9	10	11	12

B. HAZARDOUS WASTES FROM SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific industrial sources your installation handles. Use additional sheets if necessary.

13 K078	14 K086	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

C. COMMERCIAL CHEMICAL PRODUCT HAZARDOUS WASTES. Enter the four-digit number from 40 CFR Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31 U001	32 U002	33 U004	34 U008	35 U012	36 U019
37 U021	38 U023	39 U026	40 U031	41 U043	42 U044
43 U049	44 U056	45 U057	46 U064	47 U075	48 U076

D. LISTED INFECTIOUS WASTES. Enter the four-digit number from 40 CFR Part 261.34 for each listed hazardous waste from hospitals, veterinary hospitals, medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54
----	----	----	----	----	----

E. CHARACTERISTICS OF NON-LISTED HAZARDOUS WASTES. Mark "X" in the boxes corresponding to the characteristics of non-listed hazardous wastes your installation handles. (See 40 CFR Parts 261.21 - 261.24.)

☒ 1. IGNITABLE
(D001)

☒ 2. CORROSIVE
(D002)

☒ 3. REACTIVE
(D003)

☒ 4. TOXIC
(D000)

X. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE

NAME & OFFICIAL TITLE (type or print)

DATE SIGNED

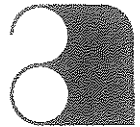


JORDAN PEARLMAN, VICE PRESIDENT

8-13-80

Acme Barrel Company
Established 1894

*RADFORD 7/27
To be Filed*



June 27, 1988

United States Environmental Protection Agency
Region V
111 West Jackson Boulevard
Chicago, Illinois 60604

Re: Acme Barrel Company
USEPA ID No. ILD 025 022 997
Correction of SIC Code

Dear Sir or Madam:

We have determined that the SIC Code number previously forwarded to you is in error. Our company is not a manufacturer.

Please correct your records to show the correct SIC Code number as 7699.

Yours truly,

Elliot S. Pearlman
Secretary-Treasurer



The world's largest, most efficient drum recycling facility is located at: 2300 West 13th Street, Chicago, Illinois 60608, Phone 312-829-3838

THE COMPANIES LIST

ILD 046583993
Rockford

Sundstrand Aviation Operations
(Store <90 days)

✓ ILD 025022997
Chiago

Acme Barrel Company
(Drum Recycling)

ILD 044231470
Chicago

Commonwealth Edison-Crawford Gen. Stat.
(Exempted Wastes)

ILD 006304109
Olney

Roadmaster Corp. (Formerly AMF Wheel Goods Div.)
(Wastewater treatment and storage less
than 90 days)

ILD 005464896
Waukegan

Du-Tone Corp.
(Recycling)

ILD 005137914
Chicago

Reliable Plating Corp
(Waste Water Treatment)

ILD 085343887
Blue Island

Onyx Chemical Co.
(Protective Filer)

ILD 025163726
Chicago

Philip A. Hunt Chemical Corp.
(Transfer Facility)

1002502297

SH-12

Thomas Cavanaugh, Manager
Field Operations Section, ILPA
Illinois EPA
2200 Churchill Road
Springfield, Illinois 62706

Re: Non-regulated Hazardous
Waste Handlers

Dear Mr. Cavanaugh:

The companies included on the attached list dated March 30, 1984, are considered by U.S. EPA to be exempted or excluded from Federal hazardous waste permit regulations for the reasons shown. We will notify each company of that in writing after April 10, 1984.

However, if your files include any information which indicates any of these companies is subject to permit regulations, we would like to have the information before we act. A response by April 10, 1984, would be appreciated.

Thank you for your cooperation.

Sincerely,

Robert L. Stone
State Implementation Officer

Enclosure

cc: Bill Padlinski, ILPA

bcc: Lisa Pierard, RAIU

5HW-12:R.STONE:ns:4/4/84

INITIALS	TYPIST	AUTHOR	STU #1	STU #2	STU #3	TPE	WMB	WMD
	N.S.	4/4/84	CHIEF	CHIEF	CHIEF	CHIEF	CHIEF	DIRECTOR
DATE	4/4/84							

FORM 1 GENERAL	 ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program <i>(Read the "General Instructions" before starting.)</i>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">I. EPA I.D. NUMBER</th> </tr> <tr> <td style="width:10%;">E</td> <td style="width:10%;">I</td> <td style="width:10%;">L</td> <td style="width:10%;">D</td> </tr> <tr> <td colspan="4" style="text-align: center;">025022997</td> </tr> <tr> <td colspan="4" style="text-align: right;">T/A C</td> </tr> <tr> <td colspan="4" style="text-align: right;">3 D</td> </tr> </table>	I. EPA I.D. NUMBER				E	I	L	D	025022997				T/A C				3 D			
I. EPA I.D. NUMBER																						
E	I	L	D																			
025022997																						
T/A C																						
3 D																						
LABEL ITEMS I. EPA I.D. NUMBER III. FACILITY NAME V. FACILITY MAILING ADDRESS VI. FACILITY LOCATION		<p style="text-align: center; font-weight: bold; font-size: 1.2em;">PLEASE PLACE LABEL IN THIS SPACE</p>																				
GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.																						

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X'			SPECIFIC QUESTIONS	MARK 'X'		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

C	1	SKIP	ACME BARREL COMPANY
---	---	------	---------------------

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)		B. PHONE (area code & no.)	
C	2 PEARLMAN JORDAN VICE PRESIDENT	312	829 3838

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX	
C	3 2300 W 13TH ST
B. CITY OR TOWN	
C	4 CHICAGO
C. STATE	
C	14
D. ZIP CODE	
C	60608

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER	
C	5 2300 W 13TH ST
B. COUNTY NAME	
C	COOK
C. CITY OR TOWN	
C	6 CHICAGO
D. STATE	
C	14
E. ZIP CODE	
C	60608
F. COUNTY CODE (if known)	
C	031

NOV 06 1980

(II. SIC CODES (4-digit, in order of priority))

A. FIRST				B. SECOND			
7	3	4	1	7	5	0	8
(specify) METAL SHIPPING BARRELS, DRUMS, KEYS AND PAILS				(specify) WHOLESALE TRADE, DURABLE GOODS, INDUSTRIAL SUPPLIES			
C. THIRD				D. FOURTH			
(specify)				(specify)			

(III. OPERATOR INFORMATION)

A. NAME						B. Is the name listed in Item VIII-A also the owner?	
ACME BARREL COMPANY						<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)						D. PHONE (area code & no.)	
F = FEDERAL		M = PUBLIC (other than federal or state)		P (specify)		C	
S = STATE		O = OTHER (specify)		PRIVATE		A	
P = PRIVATE						3 1 2 8 2 9 3 8 3 8	
E. STREET OR P.O. BOX							
2300 W 13TH ST							
F. CITY OR TOWN				G. STATE	H. ZIP CODE	IX. INDIAN LAND	
CHICAGO				IL	60608	Is the facility located on Indian lands?	
						<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

(X. EXISTING ENVIRONMENTAL PERMITS)

A. NPDES (Discharges to Surface Water)				D. PSD (Air Emissions from Proposed Sources)			
N				P			
B. UIC (Underground Injection of Fluids)				E. OTHER (specify)			
U				P 2-50001			
C. RCRA (Hazardous Wastes)				E. OTHER (specify)			
R				0.3050582			
				(specify) CITY OF CHICAGO			
				CERTIFICATE OF OPERATION			
				(specify) ILLINOIS E.P.A.			
				OPERATING PERMIT			

(XI. MAP)

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

F9 A/50

(XII. NATURE OF BUSINESS (provide a brief description))

RECONDITIONING OF EMPTY STEEL DRUMS

F9 A/51

(XIII. CERTIFICATION (see instructions))

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
JORDAN PEARLMAN VICE PRESIDENT	<i>Jordan Pearlman</i>	Nov. 5, 1980

(COMMENTS FOR OFFICIAL USE ONLY)

--	--	--	--

FORM 3 RCRA EPA HAZARDOUS WASTE PERMIT APPLICATION
U.S. ENVIRONMENTAL PROTECTION AGENCY
Consolidated Permits Program
(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER
S F I L D 0 2 5 0 2 2 9 9 7 3 1
T/A C 1

FOR OFFICIAL USE ONLY
APPLICATION APPROVED DATE RECEIVED (yr., mo., & day)
COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)
☒ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)
C 8 YR. 8 MO. 1 DAY 8 FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)
16 73 74 75 76 77 78
☐ 2. NEW FACILITY (Complete item below.)
71 FOR NEW FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN
73 74 75 76 77 78

B. REVISED APPLICATION (place an "X" below and complete Item I above)
☐ 1. FACILITY HAS INTERIM STATUS
72
☐ 2. FACILITY HAS A RCRA PERMIT
72

III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.
2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PRO-CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PRO-CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS		T04	GALLONS PER DAY OR LITERS PER DAY
Disposal:			OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)		
INJECTION WELL	D79	GALLONS OR LITERS			
LANDFILL	D80	ACRE-Feet (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS			
UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-Feet	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

4 C D U P T/A C 0 1
1 2 12 14 15
LINE NUMBER A. PROCESS CODE (from list above) B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) 2. UNIT OF MEASURE (enter code) FOR OFFICIAL USE ONLY
X-1 S 0 2 600 G
X-2 T 0 3 20 E
1 T 0 4 260000 U
3
4
5
6
7
8
9
10
16 18 19 27 28 29 30 31 32

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

PROCESS REFERRED TO IN ITEM III B. CONSISTS OF THE ADDITION OF LIME TO COMPOSITE SLUDGE (RESIDUES FROM EMPTY DRUMS SENT TO THIS FACILITY FOR RECONDITIONING) TO FIXATE HEAVY METALS CONSTITUENTS BEFORE REMOVAL TO PERMITTED OFF-SITE LANDFILLS.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE
POUNDS	P
TONS	T

METRIC UNIT OF MEASURE	CODE
KILOGRAMS	K
METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

W N O JZ	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA- SURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

EPA HAZARDOUS WASTE REPORT												D. PROCESSES					
A. EPA HAZARD. WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE				C. UNIT OF MEASURE (enter code)		1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))			
23 - 26				27 - 32				33 - 34		27 - 28 29 - 29 27 - 28 27 - 29							
1 D000				3120 PP				M		T04				FIXATION BY ADDING LIME			
2 D007				3250 PP INCLUDED IN ABOVE				M		T04 U.S.				Fixation By Adding Lime ^{URS}			
3 D008				" " " "				-		T04							
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	

IV. DESCRIPTION OF HAZARDOUS WASTE

(continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 1.

EPA I.D. NO. (enter from page 1)																
5	4	3	2	1	0	9	8	7	6	5	4	3	2	1	T/A	C
F	I	L	D	0	2	5	0	2	2	9	9	7	3	6		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail). *F6 A/55*

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail). *F6 A/56*

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)

LONGITUDE (degrees, minutes, & seconds)

41 51 43 6

98 7 41 00 0

VIII. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

2. PHONE NO. (area code & no.)

PHILIP A. PEARLMAN

312-829-3838

3. STREET OR P.O. BOX

4. CITY OR TOWN

5. ST.

6. ZIP CODE

2300 W. 13TH ST.

CHICAGO

1L

60608

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

B. SIGNATURE

C. DATE SIGNED

PHILIP A. PEARLMAN

Philip A. Pearlman

Nov. 5, 1980

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

B. SIGNATURE

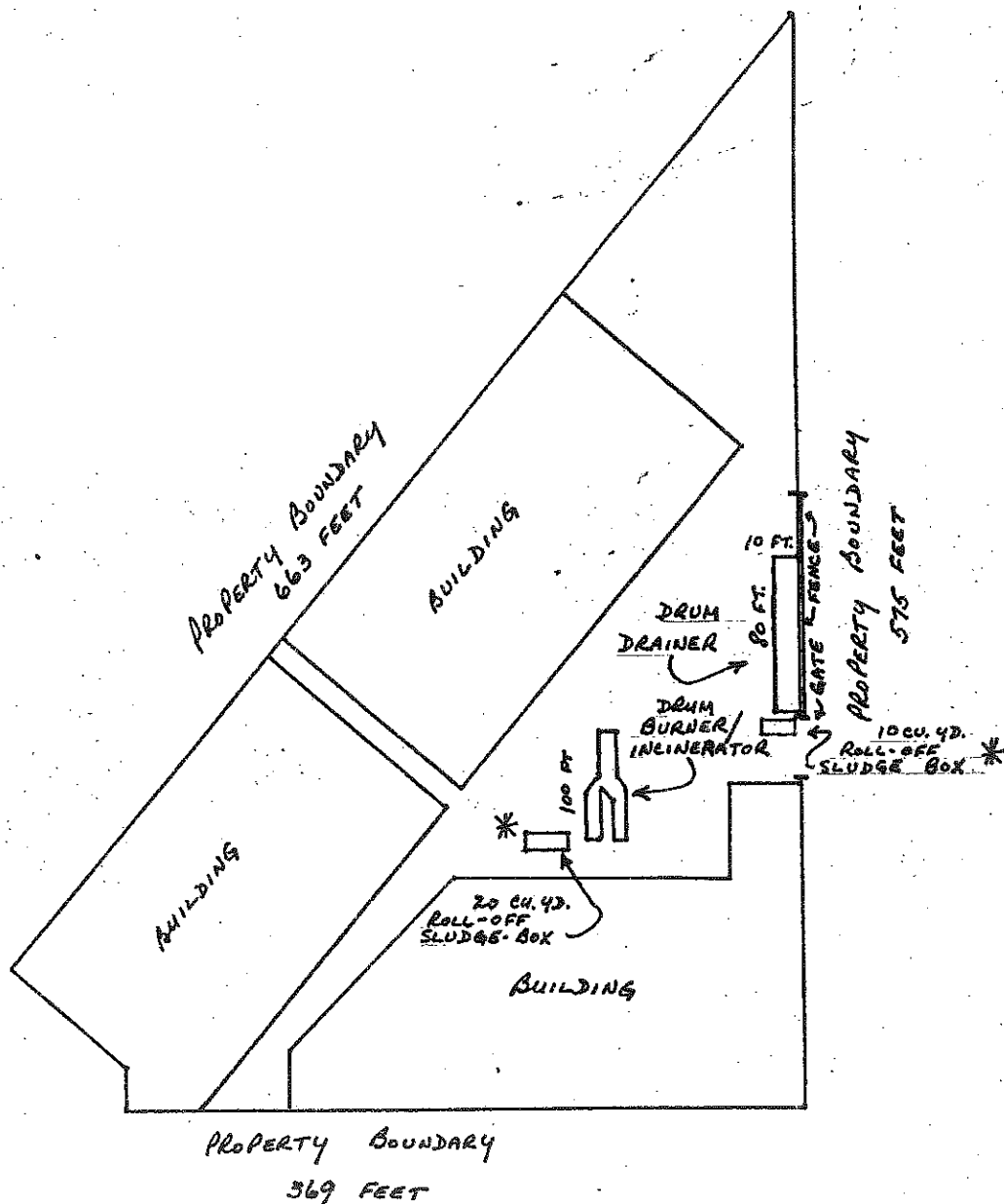
C. DATE SIGNED

JORDAN PEARLMAN
VICE PRESIDENT

Jordan Pearlman

Nov 5, 1980

V FACILITY DRAWING (see page 4)



* LIME IS ADDED TO THE SLUDGE
AT THE ROLL-OFF BOXES.

SCALE: 1 INCH = 100 FEET

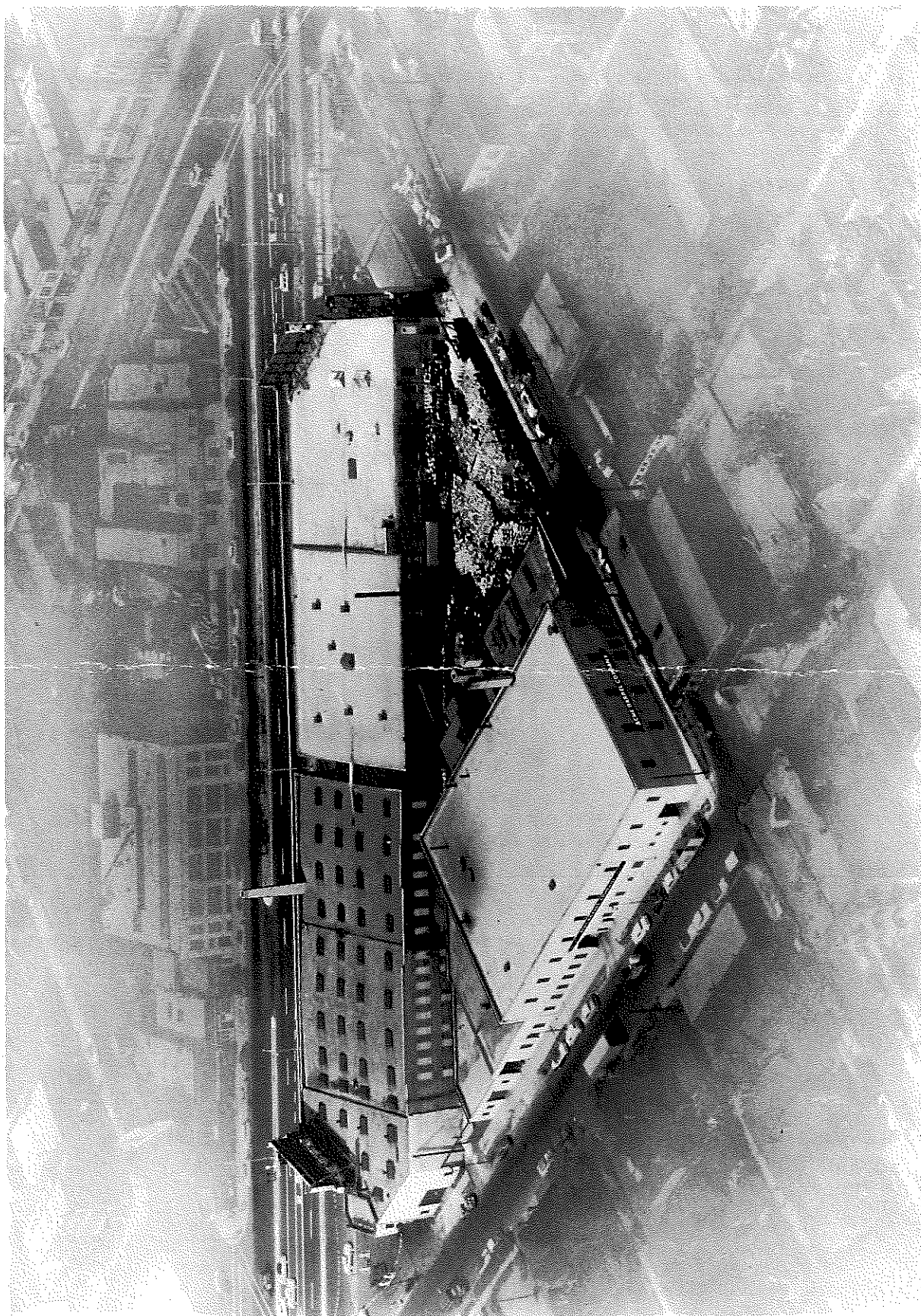
ADDITIONS TO ITEM IX, SECTION C

U 0 7 7	U 1 7 9
U 0 7 8	U 1 8 0
U 0 7 9	U 1 8 8
U 0 8 0	U 1 9 4
U 0 8 1	U 1 9 6
U 0 8 2	U 2 0 7
U 0 8 3	U 2 0 8
U 0 8 4	U 2 0 9
U 0 8 5	U 2 1 0
U 0 8 6	U 2 2 0
U 0 8 7	U 2 2 6
U 1 0 4	U 2 2 8
U 1 0 5	U 2 3 9
U 1 0 6	
U 1 1 0	
U 1 1 2	
U 1 2 7	
U 1 2 8	
U 1 4 0	
U 1 5 2	
U 1 5 4	
U 1 5 9	
U 1 6 1	
U 1 6 9	
U 1 7 0	
U 1 7 1	
U 1 7 2	
U 1 7 3	
U 1 7 4	
U 1 7 5	
U 1 7 6	
U 1 7 7	
U 1 7 8	

ADDENDUM TO ITEM X

801050 ILLINOIS E.P.A. SPECIAL WASTE
 DISPOSAL PERMIT

790024 " " " "









UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:

MAY 9 8 1984

5HW-13

Jordan Pearlman, Vice President
Acme Barrel Company
2300 West 13th Street
Chicago, Illinois 60608

B
RE: Withdrawal of Part A
(Drum Recycling)
FACILITY NAME: Acme Barrel Company
U.S. EPA ID NO.: ILD025022997

Dear Mr. Pearlman:

This is to acknowledge that the United States Environmental Protection Agency (U.S. EPA) has completed its review of your Part A Hazardous Waste Permit Application and your letter of February 29, 1984, requesting the withdrawal of your permit application. According to the information which you have submitted the only hazardous waste treated, stored, or disposed at your facility is the hazardous waste residue in empty containers as defined in 40 CFR Part 261.7. It is the opinion of this office, based on the information submitted, that your facility is not required to have a hazardous waste permit under Section 3005 of the Resource Conservation and Recovery Act at this time. Please be advised that your facility must still comply with any applicable State and local requirements.

You will retain your U.S. EPA identification number if you notified that the facility is a generator or transporter of a hazardous waste.

Please contact the Regulatory Analysis and Information Unit at (312) 886-6148 for assistance, if you have any questions. Please refer to "Withdrawal of Part A (Drum Recycling)," in all telephone contacts and correspondence.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Karl J. Klepitsch, Jr.", is written over the "Sincerely yours," line.

Karl J. Klepitsch, Jr., Chief
Waste Management Branch

cc: Philip A. Pearlman
IEPA

Acme Barrel Company
Established 1894

February 29, 1984



Mr. Karl J. Klepitsch, Jr., Chief
Waste Management Branch
United States Environmental Protection Agency
Region V
230 South Dearborn Street
Chicago, Illinois 60604

Re: Acme Barrel Company
2300 West 13th Street
Chicago, Illinois 60608
ILD 025022997 G, TRS, TSD, PA

Dear Mr. Klepitsch:

On February 21, 1984 R. C. Meyer of our company and Charles A. Licht, consulting engineer, met with Mr. Kevin Pierard of your staff regarding the recent U.S. E.P.A. request for submittal of Part B of the permit application for the above-referenced facility. Mr. Pierard has advised us that under U.S. E.P.A. regulations we are not a hazardous waste Treatment, Storage or Disposal Facility, and consequently do not require a RCRA permit.

Acme Barrel Company is a steel drum reconditioner. We receive empty drums for that purpose, and adhere to the E.P.A. definition of "empty". We do not accept containers for reconditioning unless the former contents have been thoroughly removed and, if a residue does remain on the bottom, it is no more than one inch. We do not accept drums formerly containing "acutely hazardous" materials (40 CFR 261.33e) unless they have been triple rinsed with an effective solvent or equivalent cleaner. As the empty drums progress through our reconditioning process, the exempt residues are accumulated for landfill disposal in a lugger box to which lime is systematically added. The waste has been determined to be non-hazardous by independent laboratory analyses and is transported by permitted Special Waste hauler to permitted landfills manifested as a non-hazardous, State of Illinois "Special Industrial Waste". Mr. Pierard has pointed out that since the incoming residues are exempt, and the waste leaving our facility is non-hazardous, TSD permitting is not applicable. We understand that should the regulations change in this regard and a Part B be requested in the future, our previously submitted Part A application and subsequent Interim Status approval as an existing facility would be considered valid. We wish to retain our Generator number.

Your acknowledgement of the above would be appreciated.

RECEIVED
MAR 05 1984

WASTE MANAGEMENT
DIVISION

cc: Mr. Larry Eastep, Illinois E.P.A.
Mr. Kevin Pierard, U.S. E.P.A.

Yours truly,

Jordan Pearlman
Vice President

RECEIVED
3/15/84



The world's largest, most efficient drum recycling facility is located at: 2300 West 13th Street, Chicago, Illinois 60608, Phone 312-829-3838

NOV 2 2 1983

5HW-12

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Jordan Pearlman, Vice-President
Acme Barrel Company
2300 West 13th Street
Chicago, Illinois 60608

Re: Acme Barrel Company
2300 West 13th Street
Chicago, Illinois
ILD 025022997

Dear Mr. Pearlman:

By now you should have received an acknowledgement of our receipt of the Part A permit application material for the above-referenced hazardous waste facility under the Resource Conservation and Recovery Act (RCRA) permit program.

Accordingly, this letter constitutes the next step in the formal process leading toward issuance or denial of a RCRA permit. Under the authority of 40 CFR 270.10, this is a formal request for submittal of Part B of the permit application for the above-referenced facility.

Enclosed is a copy of 40 CFR 270.14, which list the items required for submitting the Part B permit application for the facility. The Part B application must be submitted in quadruplicate and postmarked no later than May 31, 1984. The original and one copy of the application must be sent to the U.S. EPA at the address below, the other two copies must be sent to the Illinois EPA at the address below. Please uniquely number each page of the application including all attachments (maps, specifications, etc.). A certification statement identical to the one stated in 40 CFR 270.11(d) must accompany the application and all additional submittals. Send your application to the following addresses:

RCRA ACTIVITIES
Part B Permit Application
U.S. EPA, Region V
P.O. Box A3587
Chicago, Illinois 60690-3587

Larry Eastep, Manager
Permit Section, DLPC
Illinois EPA
2200 Churchill Road
Springfield, Illinois 62706

We are committed to conducting the RCRA permitting process as efficiently as possible. Consequently, I suggest you contact Mr. Kevin Pierard of my staff, at (312) 886-0994, as you begin preparing your application. Mr. Pierard will be available to discuss specific needs of your application or to meet with you in Chicago. These efforts are intended to generate complete applications, without requiring any information beyond that which is necessary to make RCRA permit decisions.

Failure to furnish the complete Part B permit application by the above date, and to provide in full all required information, is grounds for termination of interim status under 40 CFR 270.10.

Information in the Part B permit application can be disclosed to the public, according to the Freedom of Information Act and U.S. Environmental Protection Agency (U.S. EPA) Freedom of Information regulations. If you wish, however, you may assert a claim of business confidentiality by printing the word "Confidential" on each page of the application which you believe contains confidential business information. U.S. EPA will review business confidentiality claims under regulations in 40 CFR Part 2, and may later request substantiation of such claims. Please review these rules carefully before making a claim.

If you claim parts of your application as confidential, please provide us with a public information copy of the application. The public information copy must be identical to the full application with the exclusion of the confidential information.

We have also enclosed a copy of 40 CFR Part 264, which include technical standards for the operation of treatment, storage, and land disposal facilities. These standards will become applicable to your facility upon issuance of a RCRA permit by U.S. EPA. A copy of our "Guidance For Permit Application Preparation" and "Part B Completeness Checklist" are also enclosed, they will help you in preparing a comprehensive and complete permit application.

We will coordinate review of the application with the Illinois Environmental Protection Agency (IEPA), and will strive for the simultaneous issuance of Federal and State hazardous waste facility permits. It is possible that during the processing of the application, the State hazardous waste program may become authorized to issue RCRA permits for your type of facility. In that case, direct Federal processing will cease, and IEPA in lieu of U.S. EPA will make the final determination on your permit application.

We look forward to receiving your Part B permit application.

Sincerely yours,

Karl J. Klepitsch, Jr., Chief
Waste Management Branch

Enclosures: 40 CFR 270
40 CFR 264
Guidance For Permit Application Preparation
Part B Completeness Checklist

cc: Robert Kuykendall IEPA

bcc: Part A file
Charles Lewis, GNCU

SHIP	DATE: 11/17/83	Disk #4	11/22/83	TPS	WMB	WMD
INITIALS	AD	NGK	WMD	CHIEF	CHIEF	DIRECTOR
DATE	11-21-83	11/21/83	11/22	11/22	11/22	

Acme Barrel Company
Established 1894

new



January 17, 1983

United States Environmental Protection Agency
Region V
230 South Dearborn Street
Chicago, Illinois 60604

Re: ILD 025022997 G, T, T & DPA
Acme Barrel Company
2300 W. 13th Street
Chicago, IL. 60608

RECEIVED
Withdrawal of Notification
as Transporter

JAN 25 1983

WASTE MANAGEMENT BRANCH
EPA REGION V

Gentlemen:

It was recently brought to our attention that we have inadvertently failed to advise you that our registration as a transporter of hazardous waste is in error and should be withdrawn. At the time we filed our "Notification of Hazardous Waste Activity" the regulations pertaining to empty used steel drums had not been finalized. Our registering as a transporter was precautionary. We have never transported hazardous wastes.

Yours truly,

ACME BARREL COMPANY

Jordan Pearlman
Jordan Pearlman
Vice President

JP:bv

RECEIVED
1/27/83



The world's largest, most efficient drum recycling facility is located at: 2300 West 13th Street, Chicago, Illinois 60608, Phone 312-829-3838

Writer's direct phone

(312) 269-8903

Writer's e-mail

eboyd@seyfarth.com

May 22, 2002

Via Messenger

Graciela Scambiatterra
U.S. EPA
77 West Jackson Boulevard, DE-9J
Chicago, Illinois 60604

**Re: March 6, 2002 Request For Information
U.S. EPA I.D. No.: ILD 025 022 997**

Dear Ms. Scambiatterra:

IFCO ICS-Chicago, Inc. (hereafter, the "Company") is providing the enclosed response to the above-referenced information request relating to the facility located at 2300 West 13th Street in Chicago (hereafter, the "Facility"). Pursuant to my correspondence with Lorna M. Jereza dated April 19, this response is due by today.

The Company is the current owner/operator of the Facility. The Facility was formerly owned and operated by Palex Container Systems and before that by Acme Barrel Company. Although the name Acme Barrel Company is still used, Acme Barrel no longer exists as a corporate entity.

The Company has made diligent efforts to respond to the Request for Information. Each response is based on the personal knowledge of employees of the Company and a review of Company records. The Company nevertheless has several objections concerning the Request for Information. These objections are being made to preserve the Company's rights. Answers, however, are provided notwithstanding and subject to the objections. The submission of the information in response to the U.S. EPA's Request for Information in no way constitutes an admission of liability, waiver of defenses or submission to jurisdiction.

Graciela Scambiaterra

May 22, 2002

Page 2

In particular, IFCO ICS-Chicago, Inc. objects to the requirements to supplement the responses and to provide a certification along with the responses. Section 3007 of RCRA, 42 U.S.C. § 6927, does not contain any provision relating to supplementation of responses or required certifications. Federal Rule of Civil Procedure ("FRCP") 26(e), dealing with supplementation of discovery responses, contains specific limitations notably absent from the Request for Information instructions. The Company will use FRCP 26(e) to guide it should supplementation of any response become necessary. The Company will include the certification included in paragraph 6 of the Request for Information with the understanding that it is substantively no different than the certification required for discovery responses pursuant to FRCP 26(g).

The Company also objects to the extent the Request for Information seeks information about the identity of its customers. Section 3007 of RCRA, 42 U.S.C. § 6927, does not explicitly provide the U.S. EPA with the authority to obtain such information. The Company takes reasonable steps to protect the confidentiality of this information since its disclosure would cause substantial harm to the Company's competitive position. Although federal law, regulations and guidance require the U.S. EPA to protect confidential business information from disclosure, no safeguard can completely protect confidential business information from being disclosed inadvertently once it is provided to the U.S. EPA. Notwithstanding this objection, the Company has provided certain confidential business information in response to the Request for Information pursuant to the provisions of 40 C.F.R. Part 2, Subpart B.

The Company also objects to the extent certain terms and phrases used in the Request for Information are ambiguous, vague and not defined. Such terms and phrases include but are not limited to "analytical report", "solvent-based paint booths", "chemical products", "process", "processes", "paint booth equipment", "generated spent cleaning solution", "shipping documents", "written procedure", and "special labeling". For purposes of its response, the Company has interpreted these terms and phrases so that the Request for Information is not overly broad, unduly burdensome, or requesting information which is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence.

Finally, the Company also objects to the extent that the Request for Information seeks information or documents protected by the attorney-client privilege, the attorney work product doctrine, or any other available legal privilege or protection. The Company has responded to the Request for Information by interpreting the Request for Information as not requesting any such information or documents.

Graciela Scambiaterra

May 22, 2002

Page 3

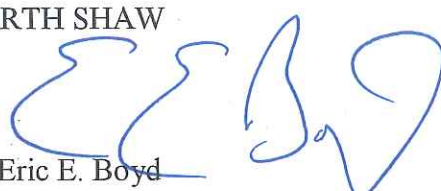
If you have any questions about this letter or the attached response, please do not hesitate to call me.

Very truly yours,

SEYFARTH SHAW

By

Eric E. Boyd



EEB:jab

cc: Kay Rykowski

10384683.1



IFCO ICS – Chicago, Inc.
2300 West 13th Street
Chicago, Illinois 60608
Tel: 312-829-3838
Fax: 312-829-7925
www.ifcosystems.com

VIA Hand Delivery

May 22, 2002

Graciela Scambiaterra
USEPA Region 5
77 West Jackson Boulevard
DE-9J
Chicago, Illinois 60604

Subject: Request for Information

Dear Ms. Scambiaterra:

This letter is provided by IFCO ICS – Chicago, Inc. in response to the subject correspondence dated March 6, 2002. An itemized response to the request is provided below.

1. *Identify all persons consulted in preparing the answers to this Request for Information. Provide the full name and title for each person identified.*

In addition legal counsel the persons below were consulted:

Patricia Kay Rykowski, Corporate Environmental Director
Sam Fiegura, Quality Control Manager
Nathaniel Smith, Plant Manager

2. *Provide a Toxicity Characteristic Leaching Procedure (TCLP) analytical report on the solvent-based paint booth filters generated at the Acme facility at 2300 West 13th Street, Chicago, Illinois, according to the following instructions:*
 - a) *Run an analysis for metals as well as volatiles, in accordance with the procedures set forth at 40 CFR (Code of Federal Regulations) 260.11 and the most current edition of the EPA Publication SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods;"*

See Attachment 1

- b) *Include any chain of custody documentation, laboratory analysis summaries, and data verification reports.*

See Attachment 1

- 3. *Provide a detailed explanation of the processes involved in the solvent-based paint booths, and also address all of the following:*

- a) *Provide a list of all the chemical products used at the paint booths; including products used to clean the paint booth equipment;*

Attachment 2 provides a list of chemical products used at the paint booths, including the commercial solvent used for cleaning.

- b) *Provide a Material Safety Data Sheet (MSDS) for each of the chemical products used at the paint booths;*

Attachment 2 provides an MSDS for chemical products used at the paint booths.

- c) *Provide a description as to what point the chemicals are added to the process and when they are removed, and their disposition.*

Paint, contained in 55 gallon steel drums and located in one of two paint storage rooms, is delivered via pump and supply line directly to the spray gun(s) inside each spray booth. For solvent-based coatings only (interior lining), acetone may be added to the 55 gallon drum to adjust viscosity as needed. No chemicals are added to waterborne coatings (exterior paint) at any point in this process.

- d) *Provide a description of the process involved with cleaning the paint booth equipment, including the spray guns, and the disposition of the generated spent cleaning solution.*

Paint booths and spray gun interior components, including filters and tips, are cleaned using a commercially supplied solvent. No spent solvent is generated from this activity. An MSDS for the solvent used is provided in Attachment 2.

Paint supply lines are flushed with paint which is discharged through return lines and collected in closed 55 gallon steel drums. Line flushings comprised of waterborne coatings (exterior paint) are collected and used for painting the bottoms of reconditioned drums. Line flushings comprised

of solvent-based coatings (interior lining), are collected and returned to the interior lining supplier for production of a recycled coating product.

4. *Provide copies of documents Acme provides to its customers to inform them that only containers that are RCRA empty (in accordance with 35 Illinois Administrative Code (IAC) 721.107 [40 CFR 261.71]) will be accepted by the Acme facility.*

Attachment 3 provides a copy of the procedure used to inform customers of IFCO Chicago's container acceptance policy for compliance with 35 IAC 721.107 [40 CFR 261.7].

5. *Provide all shipping documents within the last three years for containers returned by Acme to facilities that were not RCRA empty, provide a written procedure for returning containers that are not RCRA empty, and address the following:*

Attachment 4 provides a copy of all shipping documents for non-RCRA empty containers returned by IFCO Chicago to customer facilities.

- a) *Are the drums returned with special labeling?*

The label provided in Attachment 5 is affixed to containers determined to be non-RCRA empty.

- b) *How does Acme ensure that the non-empty containers are returned to the right customer?*

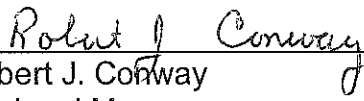
The label provided in Attachment 5 is used to identify the customer containers are received from, along with the trailer number. This information is used to ensure that the container is returned to the right customer.

- c) *When non-empty containers are returned to the customer, describe what action Acme takes concerning future dealings with the customer regarding ensuring that barrels are empty.*

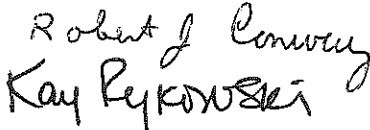
Customers are notified by telephone and/or in writing as shown in Attachment 3 when non-empty containers are returned. Notification informs customer that an exception has occurred, and that future recurrence may result in termination of service.

6. *Provide the following certification by a responsible corporate officer:*

I certify under the penalty of law that I have examined and am familiar with the information submitted in responding to this information request for production of documents. Based on my review of all relevant documents and inquiring of those individuals immediately responsible for providing all relevant information and documents, I believe that the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.


Robert J. Conway
Regional Manager

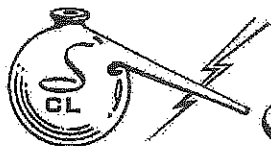
Should you have any questions regarding the information provided herein, please do not hesitate to contact Kay Rykowski at (312) 829-3838, extension 698.

Sincerely, 

Robert J. Conway
Kay Rykowski
IFCO ICS – Chicago, Inc.

Cc: Eric Boyd, Seyfarth Shaw
John Pinion, RK & Associates, Inc.
Suresh Relwani, RK & Associates, Inc.

ATTACHMENT 1



Scientific

CONTROL LABORATORIES, INC.

TESTING — CONSULTING

Daniel J. Bell
Laboratory Manager
3158 S. Kolin Ave.
Chicago IL 60623-4889
Phone: 773-254-2406
Extension 36
FAX: 773-254-6661
E-mail: dbell@schweb.com
www.schweb.com

MR. SAM FIEGURA
IFCO ICS - CHICAGO, INC.
2300 W. 13TH STREET
CHICAGO, IL 60608

Project Type: Waste Analysis
Project Inception: 05-13-02
Report Date: 05-21-02
Project Number: 2002-050307
Page Number: Page 1 of 2

IDENTIFICATION OF MATERIAL:

One (1) waste sample, identified as: **LINING BOOTH PAINT FILTERS**

PURPOSE:

The purpose of the testing is to determine if the submitted sample is hazardous as per 40 CFR, Part 261, Subpart C.

I. TCLP METALS:

PROCEDURE:

TCLP was performed per 40 CFR, Part 268, Appendix I and USEPA SW-846. The sample was analyzed in accordance with USEPA SW-846.

RESULTS:

<u>Parameter</u>	<u>Hazard ID No.</u>	<u>Characteristic "Hazard" Max</u>	<u>TCLP Analysis (mg/L)</u>
ARSENIC	D004	5.0	<0.50
BARIUM	D005	100	<0.20
CADMIUM	D006	1.0	<0.20
CHROMIUM	D007	5.0	<0.20
LEAD	D008	5.0	<0.20
MERCURY	D009	0.2	<0.002
SELENIUM	D010	1.0	<0.50
SILVER	D011	5.0	<0.20

Scientific Control Labs routinely performs matrix spikes on TCLP analyses.

If the TCLP analysis is equal to or exceeds the Characteristic "Hazard" Max, the waste is a characteristic hazardous waste and is given the designation D-00__ from the first column. The waste requires "treatment" such as stabilization to meet these limits prior to disposal.

II. TCLP ORGANICS:

PROCEDURE:

The sample was analyzed in accordance with "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods SW-846 USEPA", Methods 8260 and 8270.

RESULTS:

	<u>TCLP Analysis</u> <u>Concentration in ppm</u>	<u>Non-Hazardous</u> <u>Limit</u>
<u>VOLATILES: *</u>		
Benzene	<0.10	0.5
Chlorobenzene	<0.10	100.
Chloroform	<0.10	6.0
Carbon Tetrachloride	<0.10	0.5
1,2 Dichloroethane	<0.10	0.5
1,1 Dichloroethene	<0.10	0.5
Methyl Ethyl Ketone	<1.0	200.
Tetrachloroethene	<0.10	0.7
Trichloroethene	<0.10	0.5
Vinyl Chloride	<0.10	0.2
1,4 Dichlorobenzene	<0.10	7.5
<u>SEMI-VOLATILES: *</u>		
o Cresol	<0.050	200.
m&p Cresols	83	200.
2,4 Dinitrotoluene	<0.050	0.13
Hexachlorobenzene	<0.050	0.13
Hexachlorobutadiene	<0.050	0.5
Hexachloroethane	<0.050	3.0
Nitrobenzene	<0.050	2.0
Pentachlorophenol	<0.25	100.
Pyridine	<0.40	5.0
2,4,5 Trichlorophenol	<0.050	400.
2,4,6 Trichlorophenol	<0.050	2.0

* Volatiles and Semi-Volatiles analysis were subcontracted to US Biosystems, Boca Raton, FL.

Respectfully submitted,

SCIENTIFIC CONTROL LABORATORIES, INC.

By



Daniel J. Bell

DJB: av

Sample results relate only to the analytes of interest tested and to the sample as received by Scientific Control Laboratories, Inc.

Note: It is our policy to keep copies of reports for five years. The data is kept on file for up to five years. Samples (if applicable) are kept for three weeks. Samples that are hazardous will be returned to the client. If this policy poses a difficulty, please contact us to make other arrangements. If reproduced, our report, must be reproduced completely. Any unauthorized alteration of this report invalidates the content.

3158 S. KOLIN AVENUE
CHICAGO IL 60623-4889
www.sciweb.com
TEL (773)254-2406
FAX (773)254-6861



CONTROL LABORATORIES, INC.

TESTING — CONSULTING

CHAIN OF CUSTODY RECORD

[illegible]

ATTACHMENT 2

1	Acetone
2	Controlled Line Wash
3	Delta Aquatech W/B Black 5275
4	Federated W/R Amoco Blue Enamel F2434
5	Federated W/R Chevron Blue Drum Enamel F2303
6	Federated W/R McWhorter Blue Drum Enamel F2437
7	Federated Midland Blue W/B Drum Enamel F1767
8	Federated W/R Morton Blue Drum Enamel F2458
9	Federated W/R Unocal Blue Enamel F2344
10	Federated W/R Valvoline Blue Drum Enamel F1730
11	D&L S&W Blue W/R Baking Enamel 5880
12	Federated W/R PMS#286 Blue Enamel F2589
13	Federated W/R ADM Blue Enamel F2640
14	Federated W/R Pin Blue Drum Enamel F2641
15	Federated W/R PMS#463 Brown Drum Enamel D4233
16	Federated W/R John Deere Brown Drum Enamel D4396
17	Federated W/R PMS#4635 Brown Drum Enamel D4451
18	Federated W/R PT Brown Drum Enamel D4405
19	D&L Sun Grey Water Reducible Baking Enamel 6173
20	Federated W/R Sun Grey Drum Enamel E2381
21	Federated W/R Valspar Gray Drum Enamel E2809
22	Federated W/R Morton Green Drum Enamel G1834
23	Federated W/R National Starch Green Enamel G1727
24	D&L Carol Green Water Reducible Baking Enamel 6387
25	Federated W/R BP Green Enamel G1952
26	Federated W/R Unocal Orange Drum Enamel Y2510
27	Federated W/R Pin Orange Drum Enamel Y2798
28	Federated W/R Citgo Red Drum Enamel R2091
29	Federated W/R Mobile Red AD Enamel R3042C
30	Federated W/R Shell Red Drum Enamel R1962
31	Federated W/R New Texaco Red Drum Enamel R3071
32	Federated W/R PMS Rhodamine Red Enamel R3215
33	Federated W/R Red-orange Drum Enamel Y2572
34	Federated W/R Cat. Yellow Enamel Y2583
35	Federated W/R Shell Yellow Drum Enamel Y2427
36	Federated W/R Van Stratton Yellow Enamel Y2592
37	D&L Van Stratten Yellow W/R B.E. 6019
38	KNS L-5X Lining
39	Valspar 70-EHR008A Lining
40	BASF 105R31 Lining
41	BASF 105R33 Lining
42	BASF 105R35 Lining

**Material Safety Data Sheet**

From: Mallinckrodt Baker, Inc.
222 Red School Lane
Phillipsburg, NJ 08865



Mallinckrodt
CHEMICALS



24 Hour Emergency Telephone: 908-652-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6665

Outside U.S. and Canada
Chemtrec: 703-527-3897

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-652-2537) for assistance.

ACETONE

MSDS Number: A0446 — *Effective Date: 04/10/01*

1. Product Identification

Synonyms: Dimethylketone; 2-propanone; dimethylketal

CAS No.: 67-64-1

Molecular Weight: 58.08

Chemical Formula: (CH₃)₂CO

Product Codes:

J.T. Baker: 5356, 5580, 5805, 9001, 9002, 9003, 9004, 9005, 9006, 9007, 9008, 9009, 9010, 9015, 9036, 9125, 9254, 9271, A134, V655

Mallinckrodt: 0018, 2432, 2435, 2437, 2438, 2440, 2443, 2445, 2850, H451, H580, H981

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Acetone	67-64-1	99 - 100%	Yes

3. Hazards Identification

Emergency Overview

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF SWALLOWED OR INHALED. CAUSES

IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

J.T. Baker SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 1 - Slight

Flammability Rating: 4 - Extreme (Flammable)

Reactivity Rating: 2 - Moderate

Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES;
CLASS B EXTINGUISHER

Storage Color Code: Red (Flammable)

Potential Health Effects

Inhalation:

Inhalation of vapors irritates the respiratory tract. May cause coughing, dizziness, dullness, and headache. Higher concentrations can produce central nervous system depression, narcosis, and unconsciousness.

Ingestion:

Swallowing small amounts is not likely to produce harmful effects. Ingestion of larger amounts may produce abdominal pain, nausea and vomiting. Aspiration into lungs can produce severe lung damage and is a medical emergency. Other symptoms are expected to parallel inhalation.

Skin Contact:

Irritating due to defatting action on skin. Causes redness, pain, drying and cracking of the skin.

Eye Contact:

Vapors are irritating to the eyes. Splashes may cause severe irritation, with stinging, tearing, redness and pain.

Chronic Exposure:

Prolonged or repeated skin contact may produce severe irritation or dermatitis.

Aggravation of Pre-existing Conditions:

Use of alcoholic beverages enhances toxic effects. Exposure may increase the toxic potential of chlorinated hydrocarbons, such as chloroform, trichloroethane.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Aspiration hazard. If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Call a physician immediately.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

5. Fire Fighting Measures

Fire:

Flash point: -20C (-4F) CC

Autoignition temperature: 465C (869F)

Flammable limits in air % by volume:

lcl: 2.5; ucl: 12.8

Extremely Flammable Liquid and Vapor! Vapor may cause flash fire.

Explosion:

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated. This material may produce a floating fire hazard. Sensitive to static discharge.

Fire Extinguishing Media:

Dry chemical, alcohol foam or carbon dioxide. Water may be ineffective. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

J. T. Baker SOLUSORB(R) solvent adsorbent is recommended for spills of this product.

7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Acetone:

-OSHA Permissible Exposure Limit (PEL):

1000 ppm (TWA)

-ACGIH Threshold Limit Value (TLV):

500 ppm (TWA), 750 ppm (STEL) A4 - not classifiable as a human carcinogen

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a half-face organic vapor respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Clear, colorless, volatile liquid.

Odor:

Fragrant, mint-like

Solubility:

Miscible in all proportions in water.

Specific Gravity:

0.79 @ 20C/4C

pH:

No information found.

% Volatiles by volume @ 21C (70F):

100

Boiling Point:

56.5C (133F) @ 760 mm Hg

Melting Point:

-95C (-139F)

Vapor Density (Air=1):

2.0

Vapor Pressure (mm Hg):

400 @ 39.5C (104F)

Evaporation Rate (BuAc=1):

ca. 7.7

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Concentrated nitric and sulfuric acid mixtures, oxidizing materials, chloroform, alkalis, chlorine compounds, acids, potassium t-butoxide.

Conditions to Avoid:

Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

Oral rat LD50: 5800 mg/kg; Inhalation rat LC50: 50,100mg/m3; Irritation eye rabbit, Standard Draize, 20 mg severe; investigated as a tumorigen, mutagen, reproductive effector.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Acetone (67-64-1)	No	No	None

12. Ecological Information

Environmental Fate:

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material is expected to readily biodegrade. When released to water, this material is expected to quickly evaporate. This material has a log octanol-water partition coefficient of less than 3.0. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material may be moderately degraded by photolysis. When released into the air, this material is expected to be readily removed from the atmosphere by wet deposition.

Environmental Toxicity:

This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/l.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: ACETONE

Hazard Class: 3

UN/NA: UN1090

Packing Group: II

Information reported for product/size: 350LB

International (Water, I.M.O.)

Proper Shipping Name: ACETONE

Hazard Class: 3

UN/NA: UN1090

Packing Group: II

Information reported for product/size: 350LB

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----
 Ingredient TSCA EC Japan Australia

 Acetone (67-64-1) Yes Yes Yes Yes

-----\Chemical Inventory Status - Part 2\-----
 Ingredient Korea DSL NDSL Phil.

 Acetone (67-64-1) Yes Yes No Yes

-----\Federal, State & International Regulations - Part 1\-----
 Ingredient -SARA 302- -SARA 313-
 RQ TPQ List Chemical Catg.

 Acetone (67-64-1) No No Yes No

-----\Federal, State & International Regulations - Part 2\-----
 Ingredient CERCLA -RCRA- -TSCA-
 261.33 8(d)

 Acetone (67-64-1) 5000 U002 No

Chemical Weapons Convention: No TSCA 12(b): Yes CDTA: Yes
 SARA 311/312: Acute: Yes Chronic: No Fire: Yes Pressure: No
 Reactivity: No (Pure / Liquid)

Australian Hazchem Code: 2[Y]E

Poison Schedule: No information found.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 3 Reactivity: 0

Label Hazard Warning:

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

Label Precautions:

Keep away from heat, sparks and flame.
 Keep container closed.

Use only with adequate ventilation.
Wash thoroughly after handling.
Avoid breathing vapor.
Avoid contact with eyes, skin and clothing.

Label First Aid:

Aspiration hazard. If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Call a physician immediately. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.

Product Use:

Laboratory Reagent.

Revision Information:

No changes.

Disclaimer:

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Prepared by: Environmental Health & Safety
Phone Number: (314) 654-1600 (U.S.A.)

1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

00989

DATE OF PREP : 11/19/01

PRODUCT CLASS: MIXTURE
MFG.CODE ID : 00989
TRADE NAME : CONTROLLED LINE WASH

NO.	COMPONENT	% BY WT.
-----	-----------	----------

1	PETROLEUM NAPHTHA	5	-	10
2	PETROLEUM NAPHTHA	5	-	10
3	ALIPHATIC PETROLEUM SOLVENT	5	-	10
4	TOLUENE	5	-	10
5	XYLENE (MIXED ISOMERS)	5	-	10
6	SIMPLE KETONE	5	-	10
7	ALIPHATIC KETONE	5	-	10
8	METHYL ISOBUTYL KETONE	5	-	10
9	ALCOHOL	5	-	10
10	ALCOHOL	5	-	10
11	ALCOHOL	5	-	10
12	N-BUTYL ACETATE	5	-	10
13	ESTER	5	-	10
	GLYCOL ETHER	5	-	10

>> NONE OF THE COMPONENTS OF THIS PRODUCT ARE RECOGNIZED AS CARCINOGENIC.

*** MATERIAL SAFETY DATA SHEET ***
00989

(PAGE 2)

DATE OF PREP : 11/19/01

SECTION II-B

OCCUPATIONAL EXPOSURE LIMITS

NO.	(OSHA) PEL/TWA	PEL/CEILING
1	100.000ppm	N/E
2	300.000ppm	N/E
3	100.000ppm	N/E
4	100.000ppm	N/E
5	100.000ppm	N/E
6	750.000ppm	N/E
7	200.000ppm	300.000ppm
8	50.000ppm	N/E
9	400.000ppm	N/E
10	200.000ppm	N/E
11	1000.000ppm	N/E
12	150.000ppm	N/E
13	400.000ppm	N/E
14	25.000ppm	N/E

NO.	(OSHA) PEL/STEL	SKIN*
1	N/E	N
2	400.000ppm	N
3	N/E	N
4	150.000ppm	N
5	150.000ppm	N
6	1000.000ppm	N
7	N/E	N/E
8	75.000ppm	N/E
9	500.000ppm	N
10	250.000ppm	Y
11	N/E	N
12	200.000ppm	N
13	N/E	N
14	N/E	Y

*** MATERIAL SAFETY DATA SHEET ***
00989

(PAGE 3)

DATE OF PREP : 11/19/01

NO.	(ACGIH) TLV/TWA	TLV/CEILING
1	100.000ppm	N/E
2	300.000ppm	N/E
3	100.000ppm	N/E
4	50.000ppm	N/E
5	100.000ppm	N/E
6	750.000ppm	N/E
7	200.000ppm	300.000ppm
8	50.000ppm	N/E
9	400.000ppm	N/E
10	200.000ppm	N/E
11	1000.000ppm	N/E
12	150.000ppm	N/E
13	400.000ppm	N/E
14	25.000ppm	N/E

NO.	(ACGIH) TLV/STEL	SKIN*
1	N/E	N
2	N/E	N
3	N/E	N
4	N/E	Y
5	150.000ppm	N
6	1000.000ppm	N
7	N/E	N/E
8	75.000ppm	N/E
9	500.000ppm	N
10	250.000ppm	Y
11	N/E	N
12	200.000ppm	N
13	N/E	N
14	N/E	Y

* (SKIN) ABSORPTION MAY CONTRIBUTE TO THE OVERALL EXPOSURE TO THIS MATERIAL.
TAKE APPROPRIATE MEASURES TO PREVENT SKIN CONTACT.

(Y = YES N = NO N/E = NOT ESTABLISHED)

SECTION III PHYSICAL DATA

BOILING POINT :
evaporation rate: < 1 (ether = 1) % solid : not applicable
VAPOR DENSITY : > 1 (AIR = 1) WEIGHT PER GALLON : 6.84 (THEORETICAL)
PH LEVEL : JEJ

SECTION IV HEALTH INFORMATION

- EYE CONTACT -

BASED ON THE PRESENCE OF COMPONENTS 6, 8, 10, 12 AND 14 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE EYES. EXPOSURE MAY CAUSE CORNEAL INJURY. BASED ON THE PRESENCE OF COMPONENTS 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 AND 14 PRODUCT VAPORS AND/OR MISTS MAY ALSO BE IRRITATING TO THE EYES.

*** MATERIAL SAFETY DATA SHEET ***
00989

(PAGE 4)

DATE OF PREP : 11/19/01

=====

- SKIN CONTACT -

BASED ON THE PRESENCE OF COMPONENT 7 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY CAUSE DAMAGE TO THE SKIN. BASED ON THE PRESENCE OF COMPONENTS 10 AND14 ABSORPTION THROUGH THE SKIN MAY RESULT IN SYMPTOMS OF EXPOSURE AS THOSE DESCRIBED FOR INHALATION AND INGESTION. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12 AND13 PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DERMATITIS.

- INHALATION -

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENTS 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 AND14 EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. BASED ON THE PRESENCE OF COMPONENT 8 REPEATED OVEREXPOSURE MAY DAMAGE THE PERIPHERAL NERVOUS SYSTEM.

- INGESTION -

BASED ON THE PRESENCE OF COMPONENTS 10 AND14 PRODUCT IS PRESUMED TO BE MODERATELY TOXIC. CONTAINS METHANOL. INGESTION OF AS LITTLE AS 1 TO 4 OUNCES OF METHANOL MAY CAUSE DEATH OR SERIOUS IRREVERSIBLE INJURY SUCH AS BLINDNESS. BASED ON THE PRESENCE OF COMPONENTS 9 AND14 INGESTION MAY CAUSE KIDNEY DAMAGE. BASED ON THE PRESENCE OF COMPONENTS 9 AND14 INGESTION MAY CAUSE LIVER DAMAGE. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3, 4, 5, 6, 7, 8 AND 9 SMALL AMOUNTS OF THE LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY RESULT IN SEVERE LUNG DAMAGE. BASED ON THE PRESENCE OF COMPONENTS 9, 11, 12, 13 AND14 INGESTION MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

- SIGNS AND SYMPTOMS -

SYMPTOMS OF EYE IRRITATION INCLUDE PAIN, TEARING, REDDENING AND SWELLING. SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING, SWELLING, RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION. SYMPTOMS OF GASTROINTESTIONAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA. BASED ON THE PRESENCE OF COMPONENTS 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 AND14 CENTRAL NERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR. SYMPTOMS OF CHRONIC OVEREXPOSURE INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION.

*** MATERIAL SAFETY DATA SHEET ***
00989

(PAGE 5)

DATE OF PREP : 11/19/01

=====

- AGGRAVATED MEDICAL CONDITIONS -
PREEXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED CENTRAL NERVOUS SYSTEM FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

- OTHER HEALTH EFFECTS -
BASED ON THE PRESENCE OF COMPONENT 9 PRODUCT IS PRESUMED TO BE FETOTOXIC.
BASED ON THE PRESENCE OF COMPONENT 9 PRODUCT IS PRESUMED TO BE MUTAGENIC.
BASED ON THE PRESENCE OF COMPONENT 14 CHRONIC OVEREXPOSURE MAY CAUSE INJURY TO THE KIDNEYS AND LIVER. BASED ON THE PRESENCE OF COMPONENT 14 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE RED BLOOD CELLS. BASED ON THE PRESENCE OF COMPONENTS 1 AND 3 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE KIDNEYS. BASED ON THE PRESENCE OF COMPONENTS 2 AND 7 REPEATED EXCESSIVE INGESTION MAY CAUSE CENTRAL NERVOUS EFFECTS. BASED ON THE PRESENCE OF COMPONENT 10 PRODUCT IS PRESUMED TO BE AN ANIMAL MUTAGEN.

=====

SECTION V EMERGENCY AND FIRST AID PROCEDURES

- EYE CONTACT -
IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK PROMPT MEDICAL ATTENTION.

- SKIN CONTACT -
REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER USING SOAP IF AVAILABLE. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED.

- INHALATION -
REMOVE VICTIM TO FRESH AIR AND TREAT SYMPTOMATICALLY. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING. SEEK PROMPT MEDICAL ATTENTION.

- INGESTION -
DO NOT INDUCE VOMITING. IF VOMITING SPONTANEOUSLY OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY A PHYSICIAN. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

*** MATERIAL SAFETY DATA SHEET ***
00989

(PAGE 6)

DATE OF PREP : 11/19/01

=====

- NOTES FOR PHYSICIAN -

THE FOLLOWING COMPONENT-SPECIFIC INFORMATION MAY CONTAIN CONTRADICTIONS, AND IS INTENTIONALLY INCLUDED TO GIVE THE ATTENDING PHYSICIAN SPECIFIC INFORMATION ABOUT THE INDIVIDUAL COMPONENTS OF THE BLEND.

>> COMPONENTS 1, 2, 3, 4, 5, 6, 7, 8 AND 9 MAY CAUSE SEVERE, PERMANENT DAMAGE IF ASPIRATED AND VOMITING SHOULD NOT BE INDUCED.

>> COMPONENT 10 INGESTION OF AS LITTLE AS 1 TO 4 OUNCES OF METHANOL CAN CAUSE BLINDNESS AND DEATH. ONSET OF SYMPTOMS MAY BE DELAYED FOR 18 TO 24 HOURS; TREATMENT PRIOR TO ONSET OF OBVIOUS SYMPTOMS MAY BE LIFE-SAVING. METHANOL IS RAPIDLY ABSORBED AND EMESIS SHOULD BE INITIATED EARLY TO BE EFFECTIVE, WITHIN 30 MINUTES OF INGESTION, IF POSSIBLE. ADMINISTER SYRUP OF IPECAC. AFTER THE DOSE IS GIVEN, ENCOURAGE PATIENT TO TAKE 6 TO 8 OUNCES OF CLEAR NON-CARBONATED FLUID. DOSE MAY BE REPEATED ONCE IF EMESIS DOES NOT OCCUR WITHIN 20 TO 30 MINUTES. ADMINISTRATION OF AN AQUEOUS SLURRY OF ACTIVATED CHARCOAL WITH MAGNESIUM CIRTATE OR SORBITOL AS A CATHARTIC HAS BEEN REPORTED HELPFUL. ETHANOL INHIBITS THE FORMATION OF TOXIC METABOLITES. IF ETHANOL THERAPY IS INDICATED, ADMINISTER A LOADING DOSE OF 7.6 TO 10 ML/KG OF BODY WEIGHT OF 10% ETHANOL IN D5W OVER 30 TO 60 MINUTES. MAINTENANCE DOSE IS 1.4 ML/KG/HR OF 10% ETHANOL, TO ACHIEVE A 100-130 MG/DL BLOOD ETHANOL LEVEL DURING ETHANOL THERAPY. (IF CHARCOAL IS ADMINISTERED, ETHANOL SHOULD BE ADMINISTERED INTRAVENOUSLY AND NOT ORALLY.)

>> COMPONENTS 12, 13 AND 14 IS TOXIC AND THE PROPER FIRST AID IS TO INDUCE VOMITING.

=====

SECTION VI

FIRE AND EXPLOSION HAZARDS

FLASH POINT : 25 DEGREES F. TCC

- EXTINGUISHING MEDIA -

USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

- SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS -

WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BUNKER COAT, GLOVES, RUBBER BOOTS, AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

- UNUSUAL FIRE AND EXPLOSION HAZARDS -

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINERS THAT ARE EXPOSED TO DIRECT FLAME SHOULD BE COOLED WITH WATER TO ELIMINATE STRUCTURAL WEAKENING OF THE CONTAINER'S WALL AND POSSIBLE RUPTURE.

*** MATERIAL SAFETY DATA SHEET ***
00989

(PAGE 7)

DATE OF PREP : 11/19/01

SECTION VII

REACTIVITY

STABILITY : STABLE

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

- CONDITIONS AND MATERIALS TO AVOID -

BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 AND 14 AVOID OXIDIZING MATERIALS. BASED ON THE PRESENCE OF COMPONENTS 8 AND 14 AVOID STRONG ACIDS. BASED ON THE PRESENCE OF COMPONENT 14 AVOID AMINES AND ALKANOLAMINES. BASED ON THE PRESENCE OF COMPONENTS 1, 5 AND 8 AVOID CHLORINATED COMPOUNDS. BASED ON THE PRESENCE OF COMPONENT 14 AVOID CHLORINE AND HYPOCHLORITES. BASED ON THE PRESENCE OF COMPONENTS 8 AND 14 AVOID AMINES, POLYAMINES, AND POLYAMIDES UNDER UNCONTROLLED CONDITIONS.

- HAZARDOUS DECOMPOSITION PRODUCTS -

CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION VIII

EMPLOYEE PROTECTION

- RESPIRATORY PROTECTION -

USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS - AT LEAST 10 AIR CHANGES PER HOUR ARE RECOMMENDED FOR GOOD GENERAL ROOM VENTILATION. IF EXPOSURE EXCEEDS THE PEL/TLV, USE THE APPROPRIATE NIOSH-APPROVED RESPIRATOR.

- PROTECTIVE CLOTHING -

WEAR SAFETY GLASSES, GOGGLES, OR A SPLASH SHIELD TO PREVENT EYE CONTACT. CONTACT LENSES SHOULD NOT BE WORN. WEAR APPROPRIATE GLOVES AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND CLOTHING.

- ADDITIONAL PROTECTIVE MEASURES -

EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

SECTION IX

ENVIRONMENTAL PROTECTION

- SPILL OR LEAK PROCEDURES -

LARGE SPILLS >> EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. SMALL SPILLS >> TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

- WASTE DISPOSAL -

OBSERVE ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING PROPER DISPOSAL.

*** MATERIAL SAFETY DATA SHEET ***
00989

(PAGE 8)

DATE OF PREP : 11/19/01

SECTION X

ADDITIONAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS, AND FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER POSSIBLE SOURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. CONTAINERS, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS OR RESIDUES. DO NOT CUT, DRILL, GRIND, OR WELD NEAR CONTAINERS

AFTER CONTACT WITH PRODUCT OR CONTAINER WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES.

UNDER THE PROVISIONS OF TITLE III, SECTION 313 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR, PART 372, THE FOLLOWING COMPONENTS MAY BE SUBJECT TO REPORTING:

TOLUENE (CAS# 000108-88-3)	7.14 WT%
XYLENE (MIXED ISOMERS) (CAS# 001330-20-7)	7.14 WT%
METHYL ETHYL KETONE/MEK (CAS# 000078-93-3)	7.14 WT%
METHYL ISOBUTYL KETONE (CAS# 000108-10-1)	7.14 WT%
METHYL ALCOHOL (CAS# 000067-56-1)	7.14 WT%
2-BUTOXYETHANOL (CAS# 000111-76-2)	7.14 WT%

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, WE MAKE NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

DELTA COATINGS

MELROSE PARK, ILLINOIS 1-888-216-3600

MATERIAL SAFETY DATA SHEET

SECTION 1- PRODUCT MANUFACTURERS IDENTITY

COMPANY: DELTA COATINGS CORPORATION
ADDRESS: 2055 JANICE AVENUE, MELROSE PARK IL
PRODUCT NAME: AQUATECH W/B BLACK
PRODUCT I.D. NUMBER: 5275
PHONE NUMBER: 708-216-9800
EMERGENCY PHONE NUMBER :800-535-5053
DATE PREPARED: JANUARY, 2001

SECTION 2- HAZARDOUS INGREDIENTS INFORMATION

HAZARDOUS CHEMICAL IDENTITY	CAS NO.	%	PHI	TLV	HAZPS %
N-BUTYL ALCOHOL	71-36-3	5	100ppm	50ppm	
ISOPROPYL ALCOHOL	67-63-0	5	400ppm	400ppm	
2-BUTOXYETHANOL	111-76-2	5.29	50ppm	50ppm	5.29
TRIETHYLAMINE	121-44-8	1	25ppm	25ppm	
DIETHYLAMINOETHANOL	100-37-8	1.71	10ppm	10ppm	

SECTION 3- PHYSICAL DATA

PHYSICAL STATE: LIQUID
COLOR: BLACK
ODOR: MILD SOLVENT
SOLUBILITY IN WATER: COMPLETE
PH: 8.5
VAPOR PRESSURE: N.E.
VAPOR DENSITY: N.E.
VOC PER METHOD 3.05 LBS.
SPECIFIC GRAVITY 1.007 LBS.

SECTION 4- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD: N.A.
FLAMMABLE LIMITS: N.E. LEL / N.E. UEL / N.E.
HAZARDOUS COMBUSTION PRODUCTS: NONE
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE
EXTINGUISHING MEDIA: USE PROPER MEDIA FOR PRIMARY CAUSE OF FIRE.
SPECIAL FIRE FIGHTING PROCEDURES: USE PROPER PROTECTIVE EQUIPMENT.

SECTION 5- REACTIVITY DATA

CHEMICAL STABILITY YES X NO
HAZARDOUS DECOMPOSITION OF BY-PRODUCTS: NONE
INCOMPATIBILITY (MATERIAL TO AVOID): UNKNOWN MATERIAL.
HAZARDOUS POLYMERIZATION MAY OCCUR: NO

SECTION 6- TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY: INGESTION, INHALATION, SKIN, EYES
SENSITIZATION: YES NO X
TOXICOLOGICAL SYNERGISTIC PRODUCTS: NONE
CARCINOGENICITY: N.D.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N.D.
TERATOGENICITY: N.D.
MUTAGENICITY: N.D.

SECTION 6-TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY: INGESTION, INHALATION, SKIN, EYES

SENSITIZATION: YES ☐ NO ☒

TOXICOLOGICAL SYNERGISTIC PRODUCTS: N.D.

CARCINOGENICITY: YES ☐ NO ☒

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

TERATOGENICITY: YES ☐ NO ☒MUTAGENICITY: YES ☐ NO ☒

REPRODUCTIVE TOXICITY: N.D.

EFFECTS OF OVEREXPOSURE (ACUTE AND/OR CHRONIC):

EYES: MAY CAUSE IRRITATION, REDNESS, BURNS AND POSSIBLE CORNEAL INJURY.

SKIN: MAY CAUSE IRRITATION, REDNESS, ABSORBED THROUGH SKIN WITH PROLONGED CONTACT.

INGESTION: MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT AND POSSIBLE INJURY.

INHALATION: MAY IRRITATE RESPIRATORY TRACT WHEN USED WITH INADEQUATE VENTILATION.

SECTION 7-PREVENTATIVE AND CONTROL MEASURES

RESPIRATORY PROTECTION: USE RESPIRATORY PROTECTION WITH ADEQUATE LOCAL EXHAUST.

PROTECTIVE GLOVES: RUBBER / NEOPRENE.

EYE PROTECTION: CHEMICAL SPLASH GOGGLES.

WORK AND HYGIENIC PRACTICES: WASH THOROUGHLY AFTER USE.

STORAGE REQUIREMENTS: STORE IN COOL, DRY AREA, AWAY FROM HEAT SOURCE.

OTHER PRECAUTIONS: KEEP OUT OF THE REACH OF CHILDREN, FOR INDUSTRIAL USE ONLY.

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: COLLECT WITH INERT MATERIAL AND PLACE INTO CONTAINER FOR PROPER DISPOSAL. WASTE DISPOSAL, DISPOSE OF AS PERMITTED BY ALL FEDERAL, STATE AND LOCAL REGULATORY AUTHORITIES.

SECTION 8- EMERGENCY FIRST AID PROCEDURES

FIRST AID - NOTES TO PHYSICIAN:

EYE: FLUSH WITH WATER FOR 30 MINUTES HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION.

SKIN: REMOVE CONTAMINATED CLOTHING, WASH WITH SOAP AND WATER WITHIN 30 MINUTES.

INGESTION: RINSE MOUTH WITH WATER. GIVE 2-3 LARGE GLASSES OF WATER. DO NOT INDUCE VOMITING.

INHALATION: REMOVE TO FRESH AIR AND REST. IF SYMPTOMS PERSIST SEEK MEDICAL ATTENTION.

SECTION 9- REGULATORY INFORMATION

CONTENTS OF THIS MSDS COMPLY WITH THE OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200

EPA SARA TITLE III CHEMICAL LISTINGS:

THIS MIXTURE CONTAINS INGREDIENTS WHICH IS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR, PART 372.

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/19/99

Mfg Code F2434

W/R AMOCO BLUE ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN		
SECONDARY BUTANOL 100.00 NE	78-92-2 NE	8.9 100.00	1.7 NE	40.0 NE
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	5.1 25.00	0.0 NE	0.6 X
TRIETHYL AMINE 10.00 NE	121-44-8 NE	1.6 25.00	1.2 NE	54.0 NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 73.55
Percent Non-Volatile by Volume 26.45
Weight Per Gallon 8.70 LB/GL
VOC (less exempt) 2.95 LB/GL less exempt solvent
Organic Emissions 1.36 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 32.83

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION

HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES,GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Serial Safety Data Sheet

acme

Section 1 - Product Identification and Emergency Information

Manufacturer:

Iterated Paint Mfg. Co., Inc.
582 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 08/01/97

Mfg Code F2303

W/R CHEVRON BLUE DRUM EN.

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN		
*SECONDARY BUTANOL 100.00 NE	78-92-2 NE	11.0 100.00	1.7 NE	40.0 NE
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	4.0 25.00	0.0 NE	0.6 X
ISOPROPANOL NE	67-63-0 NE	0.7 400.00	2.0 500.00	31.2 NE
TRIETHYL AMINE 10.00 NE	121-44-8 NE	1.7 25.00	1.2 NE	54.0 NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 73.67
Percent Non-Volatile by Volume 26.33
Weight Per Gallon 8.62 LB/GL
VOC (less exempt) 3.12 LB/GL less exempt solvent
Organic Emissions 1.51 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 32.65

Section III - Fire and Explosion Hazard

Flammability Class : 3B Flash Point : 200.00 LEL : Not Established

WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION

HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS

HMIS Information Health 2 Flammability 3 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Don Bond

Serial Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Derated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/12/98

Mfg Code F2437

W/R McWHORTER BLUE DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient		CAS#	PrctByWgt	LEL	V.P.mmHg@72f	
ACGIH TLV (PPM)				OSHA PEL (PPM)		
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA	CEILING	STEL/DUR SKIN
=====						
*SECONDARY BUTANOL		78-92-2		8.8	1.7	40.0
100.00	NE	NE		100.00	NE	NE

*BUTYL CELLOSOLVE		111-76-2		4.2	0.0	0.6
25.00	NE	NE X		25.00	NE	NE X

ISOPROPANOL		67-63-0		0.6	2.0	31.2
NE	NE	NE		400.00	500.00	NE

TRIETHYL AMINE		121-44-8		1.3	1.2	54.0
10.00	NE	NE		25.00	NE	NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 71.58
Percent Non-Volatile by Volume 28.42
Weight Per Gallon 9.48 LB/GL
VOC (less exempt) 2.88 LB/GL less exempt solvent
Organic Emmissions 1.41 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 40.24

Section III - Fire and Explosion Hazard

Flammability Class : 3B Flash Point : 200.00 LEL : Not Established

WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION

HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS

HMIS Information Health 2 Flammability 3 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/19/99

Mfg Code F1767

MIDLAND BLUE W/B DR EN

Section II - Hazardous Ingredients

Ingredient	CAS#	PrcentByWgt	LEL	V.P.mmHg@72f
=====				
ACGIH TLV (PPM)				
8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM)		
8HR/TWA CEILING STEL/DUR SKIN		8HR/TWA CEILING STEL/DUR SKIN		
=====				
SECONDARY BUTANOL	78-92-2	11.6	1.7	40.0
100.00 NE	NE	100.00	NE	NE
*BUTYL CELLOSOLVE	111-76-2	4.5	0.0	0.6
25.00 NE	NE X	25.00	NE	X
ISOPROPANOL	67-63-0	0.8	2.0	31.2
NE NE	NE	400.00	500.00	NE
TRIETHYL AMINE	121-44-8	1.4	1.2	54.0
10.00 NE	NE	25.00	NE	NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 70.00
Percent Non-Volatile by Volume 30.00
Weight Per Gallon 8.39 LB/GL
VOC (less exempt) 2.94 LB/GL less exempt solvent
Organic Emmissions 1.54 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 34.44

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection I
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 01/04/02

Mfg Code F2458

W/R MORTON BLUE DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM)				
8HR/TWA	CEILING	STEL/DUR	SKIN	
OSHA PEL (PPM)				
8HR/TWA	CEILING	STEL/DUR	SKIN	
*BUTYL CELLOSOLVE	111-76-2			
25.00	NE	NE X		0.6
				X
ISOPROPANOL	67-63-0			
NE	NE			31.2
TRIETHYL AMINE	121-44-8			
10.00	NE	NE		54.0
SECONDARY BUTANOL	78-92-2			
100.00	NE	NE		40.0

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 71.76
Percent Non-Volatile by Volume 28.24
Weight Per Gallon 8.42 LB/GL
VOC (less exempt) 2.92 LB/GL less exempt solvent
Organic Emissions 1.39 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 31.71

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION

HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Water-based material that will not burn until all of the water has boiled away. Residual solids and/or product container may support combustion.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Pressure build-up may occur in closed containers.

SPECIAL FIRE FIGHTING PROCEDURES: Use water to cool containers. Firefighters should wear self contained breathing apparatus. If water is used, fog nozzles are preferable.

SECTION V - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide.

HAZARDOUS

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Heat and ignition sources.

CONDITIONS TO AVOID: None

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Inhalation, skin, eyes, ingestion.

EFFECTS OF OVEREXPOSURE: Eyes - repeated or prolonged eye contact may cause irritation. Skin contact - repeated or prolonged skin contact may cause irritation. Ingestion - Repeated ingestion may irritate the digestive tract.

EMERGENCY AND FIRST AID PROCEDURES: Inhalation - Remove to fresh air. Eyes - Flush with large amounts of water for 15 minutes. Consult a physician. Skin - Wash affected area with soap and water. Remove contaminated clothing. Consult physician if irritation persists. Ingestion - Drink 1 or 2 glasses of water. Do not induce vomiting. Consult poison control center immediately. Treat symptomatically.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Absorb with inert material such as sand or vermiculite and place in approved disposal container.

WASTE DISPOSAL METHOD: Dispose of according to applicable regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: All persons exposed to vapor and spray mists in the mixing, application and curing areas should use the appropriate properly fitted respirator unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's direction for respirator use.

VENTILATION: If handling results in aerosol or vapor generation, local exhaust ventilation is recommended.

EYE PROTECTION: Safety Glasses.

OTHER PROTECTIVE EQUIPMENT: Impervious gloves, safety shower and eyewash facility.

HYGIENIC PRACTICES: Wash hands thoroughly before eating, smoking or using the washroom. Remove and wash contaminated clothing before reuse. Smoke in smoking areas only.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid prolonged skin contact. Keep containers tightly closed when not in use.

"The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control. Federated Paint Manufacturing Co., makes no warranty, either express or implied with respect to the completeness or continuing accuracy of the information contained herein disclaims all liability for reliance thereon. The user should verify himself that he has all current data relevant to this particular use."

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/19/99

Mfg Code F2344

W/R UNOCAL BLUE ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN		
SECONDARY BUTANOL 100.00 NE	78-92-2 NE	9.8 100.00	1.7 NE	40.0
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	4.6 25.00	0.0 NE	0.6 X
ISOPROPANOL NE NE	67-63-0 NE	0.8 400.00	2.0 500.00	31.2
TRIETHYL AMINE 10.00 NE	121-44-8 NE	1.7 25.00	1.2 NE	54.0

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 71.89
Percent Non-Volatile by Volume 28.11
Weight Per Gallon 8.46 LB/GL
VOC (less exempt) 2.92 LB/GL less exempt solvent
Organic Emmissions 1.43 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 32.83

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection I
USE CHEMICAL SAFETY GOGGLES,GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/04/02

Mfg Code F1730

W/R VALVOLINE BLUE DRUM EN.

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN			OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN	
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	12.3 25.00	0.0 NE	0.6 X
ISOPROPANOL NE	67-63-0 NE	0.7 400.00	2.0 500.00	31.2 NE
TRIETHYL AMINE 10.00 NE	121-44-8 NE	1.8 25.00	1.2 NE	54.0 NE
SECONDARY BUTANOL 100.00 NE	78-92-2 NE	3.7 100.00	1.7 NE	40.0 NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 69.05
Percent Non-Volatile by Volume 30.95
Weight Per Gallon 8.28 LB/GL
VOC (less exempt) 2.93 LB/GL less exempt solvent
Organic Emissions 1.54 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 33.57

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/04/02

Mfg Code F1730

W/R VALVOLINE BLUE DRUM EN.

****WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION********HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS****

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection I
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

M A T E R I A L S A F E T Y D A T A S H E E T
W BLUE W/R BKG. ENA.

Page: 1

CT NAME: S&W BLUE W/R BKG. ENA.
SUBJECT CODE: .5880

HMIS CODES: H F R P

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: D & L INDUSTRIAL FINISHES, INC.

ADDRESS : P.O. BOX 215
215 BROWNSVILLE AVE.
LIBERTY, IN 47353

EMERGENCY PHONE : (800) 424-9300

DATE PRINTED : 04/22/99

FORMATION PHONE : (765) 458-5157

NAME OF PREPARER : N/A

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

Hazardable Components	CAS NUMBER	VAPOR PRESSURE		TEMP	WEIGHT PERCENT
		mm Hg	@		
2-BUTOXY ETHANOL HAPS PEL 25 PPM TLV 25PPM	111-76-2	.88		77F	8
ISOBUTANOL PEL 50 PPM TLV 50 PPM	78-83-1	4.4		68F	6
SEC-BUTYL ALCOHOL PEL 100 PPM TLV 100 PPM	78-92-2	12.5		68.0F	2
1-KANOLAMINE	108-01-0	4.4		68F	2

indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.
indicates toxic chemical(s) subject to the reporting requirements of section 311 and section 312.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 211F - 336F

SPECIFIC GRAVITY (H2O=1): 1.051

VAPOR DENSITY: N/A

EVAPORATION RATE: N/A

FLASHING VOC: 3.169

SOLUBILITY IN WATER: COMPLETE

APPEARANCE AND ODOR: N/A

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 72F

METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.1

UPPER: 10.6

EXTINGUISHING MEDIA: CLASS B EXTINGUISHERS ARE RECOMMENDED FOR EXTINGUISHING FIRES ORIGINATING FROM LIQUID FIRES.

SPECIAL FIREFIGHTING PROCEDURES

USE CLOSED CONTAINER (I.E. DRUMS, BULK TANKS) WITH WATER TO PREVENT EXCESSIVE PRESSURE BUILDUP.

USUAL FIRE AND EXPLOSION HAZARDS

P CONTAINERS (FULL OR EMPTY) TIGHTLY CLOSED AND AWAY FROM HEAT AND OPEN FLAME. DO NOT USE WELDING OR CUTTING TORCH ON CONTAINERS.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE.

REACTIONS TO AVOID

M A T E R I A L S A F E T Y D A T A S H E E T
AW BLUE W/R BKG. ENA.

Page: 2

OPEN FLAME, SPARKS. (ALL SOURCES OF HEAT AND IGNITION).

INCOMPATIBILITY (MATERIALS TO AVOID)

IDS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

NORMAL BYPRODUCTS SUCH AS CARBON DIOXIDE AND CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: NONE KNOWN TO D & L PAINT.**===== SECTION VI - HEALTH HAZARD DATA =====****INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

EXPOSURE MAY CAUSE RESPIRATORY TRACT IRRITATION, DIZZINESS, AND NAUSEA MAY OCCUR.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

EXPOSURE MAY CAUSE DRYING OF THE SKIN ALONG WITH CRACKING. EXPOSURE TO EYES MAY CAUSE PERMANENT DAMAGE.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

ORGANIC SOLVENTS MAY CAUSE SKIN, EYE, RESPIRATORY IRRITATION. TEARING, REDNESS, DRY AND CRACKING SKIN ARE SOME SYMPTOMS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

MAY LEAD TO HEADACHE, DIZZINESS, NAUSEA, VOMITING.

HEALTH HAZARDS (ACUTE AND CHRONIC)

A

MUTAGENICITY: NOT A CARCINOGEN: NO IARC MONOGRAPHS: NO OSHA REGULATED: NO**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

A

EMERGENCY AND FIRST AID PROCEDURES

EYES AND SKIN CONTACT: FLUSH WITH WATER. CONTACT PHYSICIAN IMMEDIATELY.

INGESTION: RINSE MOUTH, DRINK FLUID TO DILUTE. CONTACT PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE INDIVIDUAL TO FRESH AIR. CONSULT PHYSICIAN IMMEDIATELY.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

ISOLATE AREA EXPOSED. WEAR APPROPRIATE PROTECTIVE CLOTHING. CONTACT LOCAL AUTHORITIES.

WASTE DISPOSAL METHOD

DO NOT RUN INTO LOCAL SEWER. DISPOSE OF IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

HANDLE WITH APPROPRIATE CLOTHING AND EQUIPMENT. STORE MATERIAL IN COOL, DRY, WELL VENTILATED AREAS AWAY FROM HEAT AND ALL SOURCES OF IGNITION. INDOOR STORAGE SHOULD MEET OSHA STANDARDS AND LOCAL FIRE CODES.

OTHER PRECAUTIONS

AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH CONTAMINATED CLOTHING BEFORE REUSING. WASH HANDS BEFORE EATING.

===== SECTION VIII - CONTROL MEASURES =====

M A T E R I A L S A F E T Y D A T A S H E E T
&W BLUE W/R BKG. ENA.

Page: 3

IRATORY PROTECTION

... PRODUCT BECOMES AIRBORNE IN FORM OF VAPOR OR DUST, USE MSHA/NIOSH APPROVED VENTILATOR, MASK OR HOOD.

ENTILATION

TEL OR PEL LIMITS ARE EXCEEDED, USE APPROVED RESPIRATOR AND/OR APPROVED EXHAUST VENTILATION.

ROTECTIVE GLOVES

R REPEATED CONTACT, WEAR SOLVENT RESISTENT GLOVES.

YE PROTECTION

OID ALL CONTACT WITH EYES. WEAR GOGGLES OR EYE GLASSES WITH SAFETY SHIELDS IF CONTACT IS LIKELY.

HER PROTECTIVE CLOTHING OR EQUIPMENT

PROPRIATE TO USE.

ORK/HYGIENIC PRACTICES

SH BEFORE EATING OR USING RESTROOM. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE WEARING AGAIN.

===== SECTION IX - DISCLAIMER =====

enever such word or phrases as "hazardous", "toxic", "carcinogen", etc. appear herein, they are used as defined or described under the employee right-to-know laws, Federal OSHA laws, or the indirect sources for these laws such as the National Institute for Occupational Safety and Health ("NIOSH"), the National Toxicology Program, etc. The use of such words or phrases to be toxic, hazardous or otherwise harmful. ANY EXPOSURE, WITH EXCEPTION, CAN ONLY BE WHICH INCLUDES SUCH FACTORS AS THE SUBSTANCE'S CHARACTERISTICS AS DEFINED IN THE MSDS, AMOUNT AND DURATION OF EXPOSURES, OTHER CHEMICALS PRESENT, AND THE PREEXISTING INDIVIDUAL DIFFERENCES IN RESPONSE TO THE EXPOSURE.

data provided is based on information received from our raw material suppliers and other sources believed to be reliable. THIS DOES NOT CONSTITUTE A GUARANTEE (EXPRESS OR IMPLIED). WARRANTY (INCLUDING WARRANTY WITHOUT LIMITATION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) BY US WITH RESPECT TO SPECIFIC PURPOSE, EVEN IF THAT INJURY INCURRED DIRECTLY OR INDIRECTLY FROM USE OF THIS PRODUCT.

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/04/02

Mfg Code F2589

W/R PMS#286 BLUE ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM)				
8HR/TWA	CEILING	STEL/DUR	SKIN	OSHA PEL (PPM)
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA
*BUTYL CELLOSOLVE	111-76-2	12.2	0.0	0.6
25.00	NE	NE X	25.00	NE
ISOPROPANOL	67-63-0	0.8	2.0	31.2
NE	NE	400.00	500.00	NE
TRIETHYL AMINE	121-44-8	1.5	1.2	54.0
10.00	NE	25.00	NE	NE
SECONDARY BUTANOL	78-92-2	4.8	1.7	40.0
100.00	NE	100.00	NE	NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 67.40
Percent Non-Volatile by Volume 32.60
Weight Per Gallon 8.14 LB/GL
VOC (less exempt) 2.87 LB/GL less exempt solvent
Organic Emissions 1.56 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 34.18

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION

HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES,GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 01/18/02

Mfg Code F2640

W/R A.D.M. BLUE ENAMEL

Section II - Hazardous Ingredients

Ingredient		CAS#	PrctByWgt	LEL	V.P.mmHg@72f	
ACGIH TLV (PPM)				OSHA PEL (PPM)		
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA	CEILING	STEL/DUR SKIN
*BUTYL CELLOSOLVE		111-76-2		11.9	0.0	0.6
25.00	NE	NE X		25.00	NE	NE X
ISOPROPANOL		67-63-0		0.7	2.0	31.2
NE	NE	NE		400.00	500.00	NE
SECONDARY BUTANOL		78-92-2		2.9	1.7	40.0
100.00	NE	NE		100.00	NE	NE
TRIETHYL AMINE		121-44-8		1.7	1.2	54.0
10.00	NE	NE		25.00	NE	NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 69.94
Percent Non-Volatile by Volume 30.06
Weight Per Gallon 8.68 LB/GL
VOC (less exempt) 2.94 LB/GL less exempt solvent
Organic Emmissions 1.50 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 35.69

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection I
USE CHEMICAL SAFETY GOGGLES,GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/04/02

Mfg Code F2641

W/R PIN BLUE DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient				CAS#	PrctByWgt	LEL	V.P.mmHg@72f	
ACGIH TLV (PPM)				OSHA PEL (PPM)				
8HR/TWA	CEILING	STEL/DUR	SKIN		8HR/TWA	CEILING	STEL/DUR	SKIN
*BUTYL CELLOSOLVE				111-76-2	10.6	0.0		0.6
25.00	NE	NE	X		25.00	NE	NE	X
ISOPROPANOL				67-63-0	0.9	2.0		31.2
NE	NE	NE			400.00	500.00	NE	
TRIETHYL AMINE				121-44-8	1.5	1.2		54.0
10.00	NE	NE			25.00	NE	NE	
SECONDARY BUTANOL				78-92-2	3.4	1.7		40.0
100.00	NE	NE			100.00	NE	NE	

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 72.48
Percent Non-Volatile by Volume 27.52
Weight Per Gallon 8.58 LB/GL
VOC (less exempt) 2.98 LB/GL less exempt solvent
Organic Emissions 1.41 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 32.32

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION

HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1

USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/19/99

Mfg Code D4233

W/R PMS#463 BROWN DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrcentByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN		
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	12.0 25.00	0.0 NE	0.6 X
ISOPROPANOL NE	67-63-0 NE	0.8 400.00	2.0 500.00	31.2 NE
TRIETHYL AMINE 10.00 NE	121-44-8 NE	1.3 25.00	1.2 NE	54.0 NE
SECONDARY BUTANOL 100.00 NE	78-92-2 NE	4.7 100.00	1.7 NE	40.0 NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 67.90
Percent Non-Volatile by Volume 32.10
Weight Per Gallon 8.79 LB/GL
VOC (less exempt) 3.00 LB/GL less exempt solvent
Organic Emissions (Theoretical as Supplied) 1.66 LB/GL
Percentage Non-Volatile By Weight 38.73

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/04/02

Mfg Code D4396

W/R JOHN DEERE BROWN DRUM EN.

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f			
ACGIH TLV (PPM)							
8HR/TWA	CEILING	STEL/DUR	SKIN	OSHA PEL (PPM)			
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA	CEILING	STEL/DUR	SKIN
*BUTYL CELLOSOLVE	111-76-2	14.2	0.0	0.6			
25.00	NE	NE	X	25.00	NE	NE	X
ISOPROPANOL	67-63-0	0.8	2.0	31.2			
NE	NE	NE	400.00	500.00	NE		
SECONDARY BUTANOL	78-92-2	4.4	1.7	40.0			
100.00	NE	NE	100.00	NE	NE		
TRIETHYL AMINE	121-44-8	2.1	1.2	54.0			
10.00	NE	NE	25.00	NE	NE		

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 57.99
Percent Non-Volatile by Volume 42.01
Weight Per Gallon 7.99 LB/GL
VOC (less exempt) 2.60 LB/GL less exempt solvent
Organic Emissions 1.72 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 43.04

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION

HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1

USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/04/02

Mfg Code D4451

W/R PMS#4635 BROWN DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f			
ACGIH TLV (PPM)		OSHA PEL (PPM)					
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA	CEILING	STEL/DUR	SKIN
*BUTYL CELLOSOLVE	111-76-2	12.2	0.0	0.6			
25.00	NE	NE X	25.00	NE	NE	X	
ISOPROPANOL	67-63-0	0.8	2.0	31.2			
NE	NE	NE	400.00	500.00	NE		
TRIETHYL AMINE	121-44-8	1.3	1.2	54.0			
10.00	NE	NE	25.00	NE	NE		
SECONDARY BUTANOL	78-92-2	4.2	1.7	40.0			
100.00	NE	NE	100.00	NE	NE		

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 68.14
Percent Non-Volatile by Volume 31.86
Weight Per Gallon 8.73 LB/GL
VOC (less exempt) 2.98 LB/GL less exempt solvent
Organic Emmissions 1.62 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 37.93

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION

HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES,GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/04/02

Mfg Code D4405

W/R P T BROWN DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f			
ACGIH TLV (PPM)		OSHA PRI. (PPM)					
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA	CEILING	STEL/DUR	SKIN
*BUTYL CELLOSOLVE	111-76-2	12.6	0.0	0.6			
25.00	NE	NE	X	25.00	NE	NE	X
ISOPROPANOL	67-63-0	0.7	2.0	31.2			
NE	NE	NE	400.00	500.00	NE		
SECONDARY BUTANOL	78-92-2	3.9	1.7	40.0			
100.00	NE	NE	100.00	NE	NE		
TRIETHYL AMINE	121-44-8	1.9	1.2	54.0			
10.00	NE	NE	25.00	NE	NE		

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 66.62
Percent Non-Volatile by Volume 33.38
Weight Per Gallon 8.92 LB/GL
VOC (less exempt) 2.98 LB/GL less exempt solvent
Organic Emmissions 1.70 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 40.90

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/04/02

Mfg Code D4405

W/R P T BROWN DRUM ENAMEL

****WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION********HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS****

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

M A T E R I A L S A F E T Y D A T A S H E E T

51 GREY WATER REDUCIBLE BKG ENA

Page: 1

PRODUCT NAME: SUN GREY WATER REDUCIBLE BKG ENA
PRODUCT CODE: .6173

HMIS CODES: H F R P
2

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: D & L INDUSTRIAL FINISHES, INC.

ADDRESS : P.O. BOX 215
215 BROWNSVILLE AVE.
LIBERTY, IN 47353

EMERGENCY PHONE : (800) 424-9300

DATE PRINTED : 3/4/2002

INFORMATION PHONE : (765) 458-5157

NAME OF PREPARER : N/A

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE			WEIGHT PERCENT
		MM HG	@	TEMP	
* 2 BUTOXY ETHANOL HAPS PEL 25 PPM TLV 25PPM	111-76-2	.88		77F	6
* ISOBUTANOL PEL 50 PPM TLV 50 PPM	78-93-1	4.4		68F	6
* ALKANOLAMINE	108-01-0	4.4		68F	2
* 2-ETHYL HEXANOL PEL/TLV NOT ESTABLISHED	104-76-7	0.2		68F	2
* GLYCOL ETHER DB HAPS PEL/TLV NOT ESTABLISHED	112-34-5	0.02		68F	1
* ISOPROPANOL PEL 400 PPM TLV 400 PPM	67-63-0	33.0		68F	1
FREE FORMALDEHYDE HAPS PEL .75 PPM 8-HR TIME-WTD AVG 2 PPM 15-MIN SHORT-TERM EXP TLV .3 PPM CEILING	50-00-0				<.1%

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 312.4
Indicates toxic chemical(s) subject to the reporting requirements of section 311 and section 312.

N/A

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 180F - 441F

SPECIFIC GRAVITY (H2O=1): 1.076

VAPOR DENSITY: N/A

EVAPORATION RATE: N/A

COATING VOC: 3.16 lb/gl

MATERIAL VOC (W/ EXEMPT): 1.5 lb/gl

SOLUBILITY IN WATER: SLIGHT

APPEARANCE AND ODOR: N/A

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 53F

METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.9

UPPER: 12.0

EXTINGUISHING MEDIA: CLASS B EXTINGUISHERS ARE RECOMMENDED FOR EXTINGUISHING
FIRES ORIGINATING FROM LIQUID FIRES.

SPECIAL FIREFIGHTING PROCEDURES

COOL CLOSED CONTAINER (i.e. DRUMS, BULK TANKS) WITH WATER TO PREVENT EXCESSIVE PRESSURE BUILDUP.

M A T E R I A L S A F E T Y D A T A S H E E T

SUN GREY WATER REDUCIBLE BKG ENA

Page: 2

GENERAL FIRE AND EXPLOSION HAZARDS

KEEP CONTAINERS (FULL OR EMPTY) TIGHTLY CLOSED AND AWAY FROM HEAT AND OPEN FLAME. DO NOT USE WELDING OR CUTTING TORCH ON CONTAINERS.

SECTION V - REACTIVITY DATA

STABILITY: STABLE.

CONDITIONS TO AVOID

HEAT, OPEN FLAME, SPARKS. (ALL SOURCES OF HEAT AND IGNITION).

INCOMPATIBILITY (MATERIALS TO AVOID)

ACIDS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

NORMAL BYPRODUCTS SUCH AS CARBON DIOXIDE AND CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: NONE KNOWN TO D & L PAINT.

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

OVEREXPOSURE MAY CAUSE RESPIRATORY TRACT IRRITATION, DIZZINESS, AND NAUSEA MAY OCCUR.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

OVEREXPOSURE MAY CAUSE DRYING OF THE SKIN ALONG WITH CRACKING. EXPOSURE TO EYES MAY CAUSE PERMANENT DAMAGE.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

ORGANIC SOLVENTS MAY CAUSE SKIN, EYE, RESPIRATORY IRRITATION. TEARING, REDNESS, DRY AND CRACKING SKIN ARE SOME SYMPTOMS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

MAY LEAD TO HEADACHE, DIZZINESS, NAUSEA, VOMITING.

HEALTH HAZARDS (ACUTE AND CHRONIC)

CONTAINS FORMALDEHYDE

INHALATION OF FORMALDEHYDE VAPOR IS A POTENTIAL CARCINOGEN

CARCINOGENICITY: NTP CARCINOGEN: YES IARC MONOGRAPHS: YES OSHA REGULATED: YES

THIS MATERIAL IS LISTED AS A CARCINOGEN OR A POTENTIAL CARCINOGEN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

CHRONIC LUNG DISEASE, DERMATOLOGIC CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: FLUSH WITH WATER. CONTACT PHYSICIAN IMMEDIATELY.

INGESTION: RINSE MOUTH, DRINK FLUID TO DILUTE. CONTACT PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE INDIVIDUAL TO FRESH AIR. CONSULT PHYSICIAN IMMEDIATELY.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

VENTILATE AREA EXPOSED. WEAR APPROPRIATE PROTECTIVE CLOTHING. CONTACT LOCAL AUTHORITIES.

WASTE DISPOSAL METHOD

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

M A T E R I A L S A F E T Y D A T A S H E E T

SUN GREY WATER REDUCIBLE BKG ENA

Page: 3

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

HANDLE WITH APPROPRIATE CLOTHING AND EQUIPMENT. STORE MATERIAL IN COOL, DRY, WELL VENTILATED AREAS AWAY FROM HEAT AND ALL SOURCES OF IGNITION. INDOOR STORAGE SHOULD MEET OSHA STANDARDS AND LOCAL FIRE CODES.

OTHER PRECAUTIONS

AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH CONTAMINATED CLOTHING BEFORE REUSING. WASH HANDS BEFORE EATING.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION

WHEN PRODUCT BECOMES AIRBORNE IN FORM OF VAPOR OR DUST, USE MSHA/NIOSH APPROVED VENTILATOR, MASK OR HOOD.

VENTILATION

IF TEL OR PEL LIMITS ARE EXCEEDED, USE APPROVED RESPIRATOR AND/OR APPROVED EXHAUST VENTILATION.

PROTECTIVE GLOVES

FOR REPEATED CONTACT, WEAR SOLVENT RESISTENT GLOVES.

EYE PROTECTION

AVOID ALL CONTACT WITH EYES. WEAR GOGGLES OR EYE GLASSES WITH SAFETY SHIELDS IF CONTACT IS LIKELY.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

A PROTECTIVE COVERALL IS OPTIONAL.

WORK/HYGIENIC PRACTICES

WASH BEFORE EATING OR USING RESTROOM. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE WEARING AGAIN.

SECTION IX - DISCLAIMER

Wherever such word or phrases as "hazardous", "toxic", "carcinogen", etc. appear herein, they are used as defined or described under state employee right-to-know laws, Federal OSHA laws, or the indirect sources for these laws such as the National Institute for Occupational Safety and Health ("NIOSH"), the National Toxicology Program, etc. The use of such words or phrases to be toxic, hazardous or otherwise harmful. ANY EXPOSURE, WITH EXCEPTION, CAN ONLY BE WHICH INCLUDES SUCH FACTORS AS THE SUBSTANCE'S CHARACTERISTICS AS DEFINED IN THE MSDS, AMOUNT AND DURATION OF EXPOSURES, OTHER CHEMICALS PRESENT, AND THE PREEXISTING INDIVIDUAL DIFFERENCES IN RESPONSE TO THE EXPOSURE.

The data provided is based on information received from our raw material suppliers and other sources believed to be reliable. THIS DATA DOES NOT CONSTITUTE A GUARANTEE (EXPRESS OR IMPLIED), WARRANTY (INCLUDING WARRANTY WITHOUT LIMITATION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) BY US WITH RESPECT TO SPECIFIC PURPOSE, EVEN IF THAT INJURY INCURRED DIRECTLY OR INDIRECTLY FROM THE USE OF THIS PRODUCT.

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 04/28/99

Mfg Code E2381

W/R SUN GREY DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f			
ACGIH TLV (PPM)		OSHA PEL (PPM)					
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA	CEILING	STEL/DUR	SKIN
SECONDARY BUTANOL	78-92-2	9.5	1.7				40.0
100.00	NE	NE		100.00	NE	NE	
*BUTYL CELLOSOLVE	111-76-2	4.4	0.0				0.6
25.00	NE	NE X		25.00	NE	NE	X
ISOPROPANOL	67-63-0	0.7	2.0				31.2
NE	NE	NE		400.00	500.00	NE	
TRIETHYL AMINE	121-44-8	1.5	1.2				54.0
10.00	NE	NE		25.00	NE	NE	

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 70.05
Percent Non-Volatile by Volume 29.95
Weight Per Gallon 9.41 LB/GL
VOC (less exempt) 2.92 LB/GL less exempt solvent
Organic Emmissions 1.52 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 41.39

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : -200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section I - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/19/99

Mfg Code E2809

W/R VALSPAR GRAY DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN		
SECONDARY BUTANOL 100.00 NE	78-92-2 NE	10.0 100.00	1.7 NE	40.0
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	5.0 25.00	0.0 NE	0.6 X
ISOPROPANOL NE	67-63-0 NE	0.7 400.00	2.0 500.00	31.2
TRIETHYL AMINE 10.00 NE	121-44-8 NE	1.3 25.00	1.2 NE	54.0

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 70.70
Percent Non-Volatile by Volume 29.30
Weight Per Gallon 8.96 LB/GL
VOC (less exempt) 2.98 LB/GL less exempt solvent
Organic Emmissions 1.54 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 37.84

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/19/99

Mfg Code G1834

W/R MORTON GREEN DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrcentByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN		
SECONDARY BUTANOL 100.00 NE	78-92-2 NE	9.6 100.00	1.7 NE	40.0
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	4.5 25.00	0.0 NE	0.6 X
ISOPROPANOL NE	67-63-0 NE	0.8 400.00	2.0 500.00	31.2
TRIETHYL AMINE 10.00 NE	121-44-8 NE	1.5 25.00	1.2 NE	54.0

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 72.72
Percent Non-Volatile by Volume 27.28
Weight Per Gallon 8.61 LB/GL
VOC (less exempt) 2.96 LB/GL less exempt solvent
Organic Emmissions 1.42 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 33.16

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION

HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection I
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

~~Material~~ Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 01/04/02

Mfg Code G1727

W/R NATL. STARCH GREEN EN.

Section II - Hazardous Ingredients

Ingredient	CAS#	ProntByWgt	LEL	V.P.mmHg@72f			
ACGIH TLV (PPM)		OSHA PEL (PPM)					
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA	CEILING	STEL/DUR	SKIN
=====							
*BUTYL CELLOSOLVE	111-76-2	11.3	0.0				0.6
25.00	NE	NE	X	25.00	NE	NE	X

TRIETHYL AMINE	121-44-8	1.4	1.2				54.0
10.00	NE	NE		25.00	NE	NE	

SECONDARY BUTANOL	78-92-2	3.3	1.7				40.0
100.00	NE	NE		100.00	NE	NE	

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 71.96
Percent Non-Volatile by Volume 28.04
Weight Per Gallon 8.50 LB/GL
VOC (less exempt) 2.91 LB/GL less exempt solvent
Organic Emmissions 1.37 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 32.02

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION

HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES,GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

M A T E R I A L S A F E T Y D A T A S H E E T

CAROL GREEN WATER REDUCIBLE BKG ENA

Page: 1

P. CT NAME: CAROL GREEN WATER REDUCIBLE BKG ENA
PRODUCT CODE: .6387

HMS CODES: H F R P
2

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: D & L INDUSTRIAL FINISHES, INC.

ADDRESS : P.O. BOX 215
215 BROWNSVILLE AVE.
LIBERTY, IN 47353

EMERGENCY PHONE : (800) 424-9300

DATE PRINTED : 3/4/2002

INFORMATION PHONE : (765) 458-5157

NAME OF PREPARER : N/A

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		TEMP	WEIGHT PERCENT
		MM HG	@		
* 2 BUTOXY ETHANOL HAPS PEL 25 PPM TLV 25PPM	111-76-2	.88		77F	7
* ISOBUTANOL PEL 50 PPM TLV 50 PPM	78-83-1	4.4		68F	6
* ALKANOLAMINE # ISOPROPANOL	108-01-0 67-63-0	4.4 33.0		68F 68F	2 1
FREE FORMALDEHYDE HAPS PEL .75 PPM 8-HR TIME-WTD AVG 2 PPM 15-MIN SHORT-TERM EXP TLV .3 PPM CEILING	50-00-0				<.1%

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.
Indicates toxic chemical(s) subject to the reporting requirements of section 311 and section 312.

N/A

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 180F - 336F
VAPOR DENSITY: N/A
COATING VOC: 3.14 lb/gal
SOLUBILITY IN WATER: SLIGHT
APPEARANCE AND ODOR: N/A

SPECIFIC GRAVITY (H2O=1): 1.066
EVAPORATION RATE: N/A
MATERIAL VOC (W/ EXEMPT): 1.5 lb/gal

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 53F
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.1
METHOD USED: TCC
UPPER: 12.0

EXTINGUISHING MEDIA: CLASS B EXTINGUISHERS ARE RECOMMENDED FOR EXTINGUISHING FIRES ORIGINATING FROM LIQUID FIRES.

SPECIAL FIREFIGHTING PROCEDURES

KEEP CLOSED CONTAINER (i.e. DRUMS, BULK TANKS) WITH WATER TO PREVENT EXCESSIVE PRESSURE BUILDUP.

UNUSUAL FIRE AND EXPLOSION HAZARDS

KEEP CONTAINERS (FULL OR EMPTY) TIGHTLY CLOSED AND AWAY FROM HEAT AND OPEN FLAME. DO NOT USE WELDING OR CUTTING TORCH ON CONTAINERS.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE.

CONDITIONS TO AVOID

HEAT, OPEN FLAME, SPARKS. (ALL SOURCES OF HEAT AND IGNITION).

INCOMPATIBILITY (MATERIALS TO AVOID)

ACIDS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

NORMAL BYPRODUCTS SUCH AS CARBON DIOXIDE AND CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: NONE KNOWN TO D & L PAINT.

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

OVEREXPOSURE MAY CAUSE RESPIRATORY TRACT IRRITATION, DIZZINESS, AND NAUSEA MAY OCCUR.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

OVEREXPOSURE MAY CAUSE DRYING OF THE SKIN ALONG WITH CRACKING. EXPOSURE TO EYES MAY CAUSE PERMANENT DAMAGE.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

ORGANIC SOLVENTS MAY CAUSE SKIN, EYE, RESPIRATORY IRRITATION. TEARING, REDNESS, DRY AND CRACKING SKIN ARE SOME SYMPTOMS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

MAY LEAD TO HEADACHE, DIZZINESS, NAUSEA, VOMITING.

HEALTH HAZARDS (ACUTE AND CHRONIC)

CONTAINS FORMALDEHYDE

INHALATION OF FORMALDEHYDE VAPOR IS A POTENTIAL CARCINOGEN

CARCINOGENICITY: NTP CARCINOGEN: YES IARC MONOGRAPHS: YES OSHA REGULATED:
YES

THIS MATERIAL IS LISTED AS A CARCINOGEN OR A POTENTIAL CARCINOGEN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

CHRONIC LUNG DISEASE, DERMATOLOGIC CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: FLUSH WITH WATER. CONTACT PHYSICIAN IMMEDIATELY.

INGESTION: RINSE MOUTH, DRINK FLUID TO DILUTE. CONTACT PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE INDIVIDUAL TO FRESH AIR. CONSULT PHYSICIAN IMMEDIATELY.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED.

VENTILATE AREA EXPOSED. WEAR APPROPRIATE PROTECTIVE CLOTHING. CONTACT LOCAL AUTHORITIES.

WASTE DISPOSAL METHOD

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

HANDLE WITH APPROPRIATE CLOTHING AND EQUIPMENT. STORE MATERIAL IN COOL, DRY, WELL VENTILATED AREAS AWAY FROM HEAT AND ALL SOURCES OF IGNITION. INDOOR STORAGE SHOULD MEET OSHA STANDARDS AND LOCAL FIRE CODES.

OTHER PRECAUTIONS

AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH CONTAMINATED CLOTHING BEFORE REUSING. WASH HANDS BEFORE EATING.

===== **SECTION VIII - CONTROL MEASURES** =====**RESPIRATORY PROTECTION**

WHEN PRODUCT BECOMES AIRBORNE IN FORM OF VAPOR OR DUST, USE MSHA/NIOSH APPROVED VENTILATOR, MASK OR HOOD.

VENTILATION

IF TEL OR PEL LIMITS ARE EXCEEDED, USE APPROVED RESPIRATOR AND/OR APPROVED EXHAUST VENTILATION.

PROTECTIVE GLOVES

FOR REPEATED CONTACT, WEAR SOLVENT RESISTENT GLOVES.

EYE PROTECTION

AVOID ALL CONTACT WITH EYES. WEAR GOGGLES OR EYE GLASSES WITH SAFETY SHIELDS IF CONTACT IS LIKELY.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

A PROTECTIVE COVERALL IS OPTIONAL.

WORK/HYGIENIC PRACTICES

WASH BEFORE EATING OR USING RESTROOM. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE WEARING AGAIN.

===== **SECTION IX - DISCLAIMER** =====

Wherever such word or phrases as "hazardous", "toxic", "carcinogen", etc. appear herein, they are used as defined or described under state employee right-to-know laws, Federal OSHA laws, or the indirect sources for these laws such as the National Institute for Occupational Safety and Health ("NIOSH"), the National Toxicology Program, etc. The use of such words or phrases to be toxic, hazardous or otherwise harmful. ANY EXPOSURE, WITH EXCEPTION, CAN ONLY BE WHICH INCLUDES SUCH FACTORS AS THE SUBSTANCE'S CHARACTERISTICS AS DEFINED IN THE MSDS, AMOUNT AND DURATION OF EXPOSURES, OTHER CHEMICALS PRESENT, AND THE PREEXISTING INDIVIDUAL DIFFERENCES IN RESPONSE TO THE EXPOSURE.

The data provided is based on information received from our raw material suppliers and other sources believed to be reliable. THIS DATE DOES NOT CONSTITUTE A GUARANTEE (EXPRESS OR IMPLIED), WARRANTY (INCLUDING WARRANTY WITHOUT LIMITATION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) BY US WITH RESPECT TO SPECIFIC PURPOSE, EVEN IF THAT INJURY INCURRED DIRECTLY OR INDIRECTLY FROM THE USE OF THIS PRODUCT.

Material Safety Data Sheet

Section I - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/04/02

Mfg Code G1952

W/R B.P. GREEN ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	ProntByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM)				
8HR/TWA	CEILING	STEL/DUR	SKIN	
OSHA PEL (PPM)				
8HR/TWA	CEILING	STEL/DUR	SKIN	
*BUTYL CELLOSOLVE	111-76-2	11.5	0.0	0.6
25.00	NE	NE	X	X
TRIETHYL AMINE	121-44-8	1.4	1.2	54.0
10.00	NE	NE	NE	
SECONDARY BUTANOL	78-92-2	3.2	1.7	40.0
100.00	NE	NE	NE	

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 72.05
Percent Non-Volatile by Volume 27.95
Weight Per Gallon 8.52 LB/GL
VOC (less exempt) 2.94 LB/GL less exempt solvent
Organic Emissions 1.39 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 32.10

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION

HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES,GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section I - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/19/99

Mfg Code Y2510

W/R UNOCAL ORANGE DRUM EN.

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN		
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	9.7 25.00	0.0 NE	0.6 X
ISOPROPANOL NE	67-63-0 NE	0.8 400.00	2.0 500.00	31.2 NE
TRIETHYL AMINE 10.00 NE	121-44-8 NE	1.7 25.00	1.2 NE	54.0 NE
SECONDARY BUTANOL 100.00 NE	78-92-2 NE	5.2 100.00	1.7 NE	40.0 NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 67.24
Percent Non-Volatile by Volume 32.76
Weight Per Gallon 8.62 LB/GL
VOC (less exempt) 2.78 LB/GL less exempt solvent
Organic Emmissions 1.50 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 38.09

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 01/18/02

Mfg Code Y2798

W/R PIN ORANGE DRUM EN.

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM)		OSHA PEL (PPM)		
8HR/TWA	CEILING	8HR/TWA	CEILING	STEL/DUR SKIN
*BUTYL CELLOSOLVE	111-76-2	9.8	0.0	0.6
25.00	NE	25.00	NE	X
ISOPROPANOL	67-63-0	0.8	2.0	31.2
NE	NE	400.00	500.00	NE
TRIETHYL AMINE	121-44-8	1.7	1.2	54.0
10.00	NE	25.00	NE	NE
SECONDARY BUTANOL	78-92-2	5.2	1.7	40.0
100.00	NE	100.00	NE	NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 68.03
Percent Non-Volatile by Volume 31.97
Weight Per Gallon 8.70 LB/GL
VOC (less exempt) 2.85 LB/GL less exempt solvent
Organic Emissions 1.53 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 37.94

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 01/18/02

Mfg Code Y2798

W/R PIN ORANGE DRUM EN.

****WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION****

****HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS****

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection I
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/19/99

Mfg Code R2091

W/R CITGO RED DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f			
ACGIH TLV (PPM)		OSHA PEL (PPM)					
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA	CEILING	STEL/DUR	SKIN
SECONDARY BUTANOL	78-92-2	9.8	1.7				40.0
100.00	NE	NE		100.00	NE	NE	
*BUTYL CELLOSOLVE	111-76-2	3.7	0.0				0.6
25.00	NE	NE X		25.00	NE	NE	X
ISOPROPANOL	67-63-0	0.8	2.0				31.2
NE	NE	NE		400.00	500.00	NE	
TRIETHYL AMINE	121-44-8	1.9	1.2				54.0
10.00	NE	NE		25.00	NE	NE	

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 73.15
Percent Non-Volatile by Volume 26.85
Weight Per Gallon 8.87 LB/GL
VOC (less exempt) 3.00 LB/GL less exempt solvent
Organic Emissions 1.44 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 34.84

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 01/04/02

Mfg Code R3042C

W/R MOBILE RED A.D. ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING	STEL/DUR SKIN	OSHA PEL (PPM) 8HR/TWA CEILING	STEL/DUR SKIN	
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	12.5 25.00	0.0 NE	0.6 X
SECONDARY BUTANOL 100.00 NE	78-92-2 NE	4.7 100.00	1.7 NE	40.0 NE
TRIETHYL AMINE 10.00 NE	121-44-8 NE	2.0 25.00	1.2 NE	54.0 NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 70.01
Percent Non-Volatile by Volume 29.99
Weight Per Gallon 8.59 LB/GL
VOC (less exempt) 3.14 LB/GL less exempt solvent
Organic Emissions 1.68 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 35.31

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Water-based material that will not burn until all of the water has boiled away. Residual solids and/or product container may support combustion.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Pressure build-up may occur in closed containers.

SPECIAL FIRE FIGHTING PROCEDURES: Use water to cool containers. Firefighters should wear self contained breathing apparatus. If water is used, fog nozzles are preferable.

SECTION V - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide.

HAZARDOUS

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Heat and ignition sources.

CONDITIONS TO AVOID: None

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Inhalation, skin, eyes, ingestion.

EFFECTS OF OVEREXPOSURE: Eyes - repeated or prolonged eye contact may cause irritation. Skin contact - repeated or prolonged skin contact may cause irritation. Ingestion - Repeated ingestion may irritate the digestive tract.

EMERGENCY AND FIRST AID PROCEDURES: Inhalation - Remove to fresh air. Eyes - Flush with large amounts of water for 15 minutes. Consult a physician. Skin - Wash affected area with soap and water. Remove contaminated clothing. Consult physician if irritation persists. Ingestion - Drink 1 or 2 glasses of water. Do not induce vomiting. Consult poison control center immediately. Treat symptomatically.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Absorb with inert material such as sand or vermiculite and place in approved disposal container.

WASTE DISPOSAL METHOD: Dispose of according to applicable regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: All persons exposed to vapor and spray mists in the mixing, application and curing areas should use the appropriate properly fitted respirator unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's direction for respirator use.

VENTILATION: If handling results in aerosol or vapor generation, local exhaust ventilation is recommended. EYE PROTECTION: Safety Glasses.

OTHER PROTECTIVE EQUIPMENT: Impervious gloves, safety shower and eyewash facility.

HYGIENIC PRACTICES: Wash hands thoroughly before eating, smoking or using the washroom. Remove and wash contaminated clothing before reuse. Smoke in smoking areas only.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid prolonged skin contact. Keep containers tightly closed when not in use.

"The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control. Federated Paint Manufacturing Co., makes no warranty, either express or implied with respect to the completeness or continuing accuracy of the information contained herein disclaims all liability for reliance thereon. The user should verify himself that he has all current data relevant to this particular use."

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/19/99

Mfg Code R1962

W/R SHELL RED DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN		
SECONDARY BUTANOL 100.00 NE	78-92-2 NE	10.8 100.00	1.7 NE	40.0
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	4.4 25.00	0.0 NE	0.6 X
ISOPROPANOL NE	67-63-0 NE	0.8 400.00	2.0 500.00	31.2
TRIETHYL AMINE 10.00 NE	121-44-8 NE	2.0 25.00	1.2 NE	54.0

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 71.23
Percent Non-Volatile by Volume 28.77
Weight Per Gallon 8.50 LB/GL
VOC (less exempt) 2.99 LB/GL less exempt solvent
Organic Emmissions 1.53 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 34.14

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection I
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 04/16/02

Mfg Code R3071

W/R NEW TEXACO RED DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrcentByWgt	LEL	V.P.mmHg@72f			
ACGIH TLV (PPM)		OSHA PEL (PPM)					
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA	CEILING	STEL/DUR	SKIN
*BUTYL CELLOSOLVE	111-76-2	10.7	0.0	0.6			
25.00	NE	NE X	25.00	NE	NE	X	
ISOPROPANOL	67-63-0	0.8	2.0	31.2			
NE	NE	NE	400.00	500.00	NE		
TRIETHYL AMINE	121-44-8	1.7	1.2	54.0			
10.00	NE	NE	25.00	NE	NE		
SECONDARY BUTANOL	78-92-2	4.6	1.7	40.0			
100.00	NE	NE	100.00	NE	NE		

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 69.68
Percent Non-Volatile by Volume 30.32
Weight Per Gallon 8.60 LB/GL
VOC (less exempt) 2.96 LB/GL less exempt solvent
Organic Emmissions 1.54 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 35.56

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 04/16/02

Mfg Code R3071

W/R NEW TEXACO RED DRUM ENAMEL

****WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION****

****HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS****

HMIS Information Health 1 Flammability 1 Reactivity 0 Protection I
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Water-based material that will not burn until all of the water has boiled away. Residual solids and/or product container may support combustion.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Pressure build-up may occur in closed containers.

SPECIAL FIRE FIGHTING PROCEDURES: Use water to cool containers. Firefighters should wear self contained breathing apparatus. If water is used, fog nozzles are preferable.

SECTION V - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Heat and ignition sources.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide.

HAZARDOUS

CONDITIONS TO AVOID: None

POLYMERIZATION: Will not occur.

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Inhalation, skin, eyes, ingestion.

EFFECTS OF OVEREXPOSURE: Eyes - repeated or prolonged eye contact may cause irritation. Skin contact - repeated or prolonged skin contact may cause irritation. Ingestion - Repeated ingestion may irritate the digestive tract.

EMERGENCY AND FIRST AID PROCEDURES: Inhalation - Remove to fresh air. Eyes - Flush with large amounts of water for 15 minutes. Consult a physician. Skin - Wash affected area with soap and water. Remove contaminated clothing. Consult physician if irritation persists. Ingestion - Drink 1 or 2 glasses of water. Do not induce vomiting. Consult poison control center immediately. Treat symptomatically.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Absorb with inert material such as sand or vermiculite and place in approved disposal container.

WASTE DISPOSAL METHOD: Dispose of according to applicable regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: All persons exposed to vapor and spray mists in the mixing, application and curing areas should use the appropriate properly fitted respirator unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's direction for respirator use.

VENTILATION: If handling results in aerosol or vapor generation, local exhaust ventilation is recommended.

EYE PROTECTION: Safety Glasses.

OTHER PROTECTIVE EQUIPMENT: Impervious gloves, safety shower and eyewash facility.

HYGIENIC PRACTICES: Wash hands thoroughly before eating, smoking or using the washroom. Remove and wash contaminated clothing before reuse. Smoke in smoking areas only.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid prolonged skin contact. Keep containers tightly closed when not in use.

"The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control. Federated Paint Manufacturing Co., makes no warranty, either express or implied with respect to the completeness or continuing accuracy or the information contained herein disclaims all liability for reliance thereon. The user should satisfy himself that he has all current data relevant to this particular use."

G:\My Documents\msdswater.DOC
Revised: October 9, 2001

Essentially Similar to OSHA 174

aterial Safety Data Sheet

Section I - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/04/02

Mfg Code R3215

W/R PMS RHODAMINE RED ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrctByWgt	LEL	V.P.mmHg@72f			
=====							
ACGIH TLV (PPM)		OSHA PEL (PPM)					
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA	CEILING	STEL/DUR	SKIN
=====							
*BUTYL CELLOSOLVE	111-76-2	9.4	0.0				0.6
25.00	NE	NE X	25.00	NE		NE	X
=====							
ISOPROPANOL	67-63-0	0.7	2.0				31.2
NE	NE	NE	400.00	500.00		NE	
=====							
TRIETHYL AMINE	121-44-8	1.9	1.2				54.0
10.00	NE	NE	25.00	NE		NE	
=====							
SECONDARY BUTANOL	78-92-2	3.9	1.7				40.0
100.00	NE	NE	100.00	NE		NE	
=====							

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 71.57
Percent Non-Volatile by Volume 28.43
Weight Per Gallon 9.10 LB/GL
VOC (less exempt) 2.97 LB/GL less exempt solvent
Organic Emmissions 1.45 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 37.27

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section I - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/19/99

Mfg Code Y2572

W/R RED-ORANGE DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrcentByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN		
SECONDARY BUTANOL 100.00 NE	78-92-2 NE	9.9 100.00	1.7 NE	40.0
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	4.7 25.00	0.0 NE	0.6 X
ISOPROPANOL NE	67-63-0 NE	0.7 400.00	2.0 500.00	31.2
TRIETHYL AMINE 10.00 NE	121-44-8 NE	1.6 25.00	1.2 NE	54.0

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 69.18
Percent Non-Volatile by Volume 30.82
Weight Per Gallon 8.82 LB/GL
VOC (less exempt) 2.84 LB/GL less exempt solvent
Organic Emmissions 1.49 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 38.23

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/19/99

Mfg Code Y2583

W/R CAT. YELLOW ENAMEL

Section II - Hazardous Ingredients

===== Ingredients =====								
Ingredient		CAS#	PrctByWgt	LEL	V.P.mmHg@72f			

ACGIH TLV (PPM)			OSHA PEL (PPM)					
8HR/TWA	CEILING	STEL/DUR	SKIN	8HR/TWA	CEILING	STEL/DUR	SKIN	
=====								
SECONDARY BUTANOL		78-92-2		12.2	1.7		40.0	
100.00	NE	NE		100.00	NE	NE		

*BUTYL CELLOSOLVE		111-76-2		4.7	0.0		0.6	
25.00	NE	NE X		25.00	NE	NE	X	

ISOPROPANOL		67-63-0		0.7	2.0		31.2	
NE	NE	NE		400.00	500.00	NE		

TRIETHYL AMINE		121-44-8		1.6	1.2		54.0	
10.00	NE	NE		25.00	NE	NE		
=====								

Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433

Information Phone [312] 243-4433

Date Prepared 03/19/99

Mfg Code Y2427

W/R SHELL YELLOW DRUM ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrcentByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN		
SECONDARY BUTANOL 100.00 NE	78-92-2 NE	10.8 100.00	1.7 NE	40.0
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	4.0 25.00	0.0 NE	0.6 X
ISOPROPANOL NE	67-63-0 NE	0.6 400.00	2.0 500.00	31.2
TRIETHYL AMINE 10.00 NE	121-44-8 NE	1.7 25.00	1.2 NE	54.0

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 191.00F - 212.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 63.99
Percent Non-Volatile by Volume 36.01
Weight Per Gallon 9.80 LB/GL
VOC (less exempt) 2.78 LB/GL less exempt solvent
Organic Emmissions 1.69 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 49.33

Section III - Fire and Explosion Hazard

Flammability Class : Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 1 Flammability 1 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES, GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

Home Borne
Material Safety Data Sheet

Section 1 - Product Identification and Emergency Information

Manufacturer:

Federated Paint Mfg. Co., Inc.
1882 South Normal
Chicago, Illinois 60616

Emergency Phone [312] 243-4433
Information Phone [312] 243-4433
Date Prepared 03/13/98

Mfg Code Y2592

W/R VAN STRATTON YELLOW ENAMEL

Section II - Hazardous Ingredients

Ingredient	CAS#	PrcentByWgt	LEL	V.P.mmHg@72f
ACGIH TLV (PPM) 8HR/TWA CEILING STEL/DUR SKIN		OSHA PEL (PPM) 8HR/TWA CEILING STEL/DUR SKIN		
*SECONDARY BUTANOL 100.00 NE	78-92-2 NE	2.9 100.00	1.7 NE	40.0 NE
*BUTYL CELLOSOLVE 25.00 NE	111-76-2 NE X	4.8 25.00	0.0 NE	0.6 X
*N-BUTYL ALCOHOL 50.00 NE	71-36-3 NE	6.8 NE	1.5 NE	8.8 50 X
DIMETHYLETHANOLAMINE NE NE	108-01-0 NE	1.7 NE	7.1 NE	0.4 NE

* This ingredient is an item which is subject to the reporting requirements of Section 313 of Title III of SARA.

PHYSICAL DATA

Boiling Range 208.00F - 273.00F

Vapor Density is Heavier than Air/Evaporation rate is slower than Ether

Percent Volatile by Volume 68.37
Percent Non-Volatile by Volume 31.63
Weight Per Gallon 9.67 LB/GL
VOC (less exempt) 2.89 LB/GL less exempt solvent
Organic Emmissions 1.56 LB/GL
(Theoretical as Supplied)
Percentage Non-Volatile By Weight 44.20

Section III - Fire and Explosion Hazard

Flammability Class : 3B Flash Point : 200.00 LEL : Not Established
WARNING THIS MATERIAL MAY PRESENT A SPONTANEOUS COMBUSTION
HAZARD - SEE OTHER PRECAUTIONS FOR ADDITIONAL DETAILS
HMIS Information Health 2 Flammability 3 Reactivity 0 Protection 1
USE CHEMICAL SAFETY GOGGLES,GLOVES, NIOSH-OSHA APPROVED RESPIRATOR

M A T E R I A L S A F E T Y D A T A S H E E T
019 VAN STRATTEN YELLOW W/R B.E.

Page: 1

PRODUCT NAME: 6019 VAN STRATTEN YELLOW W/R B.E.
PRODUCT CODE: .6019HMIS CODES: H F R P
2 1 0 C

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: D & L INDUSTRIAL FINISHES, INC.
ADDRESS : P.O. BOX 215
215 BROWNSVILLE AVE.
LIBERTY, IN 47353EMERGENCY PHONE : (800) 424-9300
INFORMATION PHONE : (765) 458-5157DATE PRINTED : 04/22/99
NAME OF PREPARER : N/A

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

PORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT PERCENT
		mm Hg	@ TEMP	
2-BUTOXY ETHANOL HAPS	111-76-2	.88	77F	7
PEL 25 PPM TLV 25PPM				
ISOBUTANOL	78-83-1	4.4	66F	5
PEL 50 PPM TLV 50 PPM				
SEC-BUTYL ALCOHOL	78-92-2	12.5	68.0F	2
PEL 100 PPM TLV 100 PPM				
GLYCOL ETHER DB HAPS	112-34-5	0.02	68F	2
PEL/TLV NOT ESTABLISHED				
ALKANOLAMINE	108-01-0	4.4	68F	1
ISOPROPANOL	67-63-0	33.0	65F	1
PEL 400 PPM TLV 400 PPM				

Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.
Indicates toxic chemical(s) subject to the reporting requirements of section 311 and section 312.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 180F - 441F

SPECIFIC GRAVITY (H2O=1): 1.198

VAPOR DENSITY: N/A

EVAPORATION RATE: N/A

HEATING VOC: 3.266

SOLUBILITY IN WATER: COMPLETE

APPEARANCE AND ODOR: N/A

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 53F

METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.9

UPPER: 12.0

EXTINGUISHING MEDIA: CLASS B EXTINGUISHERS ARE RECOMMENDED FOR EXTINGUISHING FIRES ORIGINATING FROM LIQUID FIRES.

SPECIAL FIREFIGHTING PROCEDURES

DO NOT OPEN CLOSED CONTAINER (i.e. DRUMS, BULK TANKS) WITH WATER TO PREVENT EXCESSIVE PRESSURE BUILDUP.

USUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS (FULL OR EMPTY) TIGHTLY CLOSED AND AWAY FROM HEAT AND OPEN FLAME. DO NOT USE WELDING OR CUTTING TORCH ON CONTAINERS.

A9/91
KNS COMPANIES, INC.
475 Randy Road, P.O. Box 08762
Carol Stream, IL 60108-0762
FAX: Area 312/665-1819

MATERIAL SAFETY DATA SHEET

Emergency Phones: 312-665-9010 (KNS-days); 800-424-9300 (CHEMTREC-24 hr.)

Date: May 1, 1991

PRODUCT NAMES: L-SX 404-SB-M91

Description: Phenolic Container Lining (solvent based)

Chemical Type: Polymer in solvent solution

CAS No: n/a (mixture)

HMIS RATINGS: Health-2; Flammability-3; Reactivity-0, Protection-II

HAZARDOUS INGREDIENTS

	OSHA/ACGIH TLWA	OSHA/ACGIH STEL	CARCINOGEN (OSHA, ITP, IARC)	% in PRODUCT
--	--------------------	--------------------	---------------------------------	--------------

Isopropyl Alcohol (CAS No. 67-63-0)	400 ppm	500 ppm	no	7 - 8
Isobutanol (CAS No. 78-83-1)	50 ppm	-	no	4 - 5
Cellulosolve Acetate (CAS No. 111-15-9)	100 ppm (OSHA) - 5 ppm (ACGIH) -	-	no	3 - 4
Methyl Isobutyl Ketone (CAS No. 108-10-1)	50 ppm	75 ppm	no	3 - 4
Methyl Ethyl Ketone (CAS No. 1330-20-7)	100 ppm	150 ppm	no	1 - 2
Methyl Ethyl Ketone (CAS No. 78-93-3)	200 ppm	300 ppm	no	4 - 5
Ethyl Alcohol (CAS 64-17-5)	1000 ppm	-	no	16 - 17
Methanol (CAS 108-10-1)	200 ppm	250 ppm	no	1

CHEMICAL AND PHYSICAL PROPERTIES

Appearance: Tan, viscous liquid

Odor: paint solvent

pH: neutral

Water Solubility: slight

Boiling Pt.: est. 160°F (71°C)
Spec. Gravity (H₂O = 1): 1.12 - 1.22
Vapor Density (air = 1): 2.1
Vapor Pressure (mm Hg): n/a

FIRE AND EXPLOSION HAZARDS

Flash Point (Method): 53°F ICC

Explosion Limits: Upper 17% Lower 1.3%

Extinguishing Media: Water fog, alcohol foam, CO₂, dry chemical, halogen.

Special Firefighting Procedures and Hazards: Treat as flammable liquid.
Avoid breathing vapors. SCBA recommended. Protect against eye and skin
contact. Vapors are heavier than air and may travel considerable distances
to ignition sources and flash back or explode.

OTHER INFORMATION

Reportable on EPCRA Title III, § 313 (Form R): Methyl isobutyl ketone,
Xylene

1B5851097
PAGE 1
70-EMR008A-

CUSTOMER NAME : ACME BARREL CO CUSTOMER NUMBER: 004965000
CUSTOMER INVOICE : 5851097

SECTION 1: PRODUCT IDENTIFICATION

```
MANUFACTURERS ADDRESS : 1101 THIRD STREET SOUTH, MINNEAPOLIS, MN 55415
MFG TELEPHONE NUMBER : (612) 332-7371
24 HR EMERGENCY PHONE NO : 1-800-228-5635
CHEMICAL NAME OR FAMILY : PAINT PRODUCT
FORMULA : EHRO08A-134-A-00
TRADE NAME : LO CURE RED LINING
TRADE NAME : 70 EHRO08A LO CURE RED LINING
ISSUE DATE : 12-22-97 DATE PRINTED : 12-22-97
```

SECTION 2: HAZARDOUS INGREDIENTS

NAME		WT %	
*COMMON (1): ETHYLBENZENE		0.2%	TLV TWA 100.00 PPM TLV STEL 125.00 PPM OSHA PEL 100.00 PPM CEILING NOT ESTAB RECOMND NOT ESTAB
CAS: 100-41-4	CHEMICAL: BENZENE, ETHYL		
*COMMON (NA): XYLENE		1.1%	TLV TWA 100.00 PPM TLV STEL 150.00 PPM OSHA PEL 100.00 PPM CEILING NOT ESTAB RECOMND NOT ESTAB
CAS: 1330-20-7	CHEMICAL: PHENYL, DIMETHYL		
COMMON (NA): PROPRIETARY INERT		11.5%	TLV TWA 10.00 MG/CU M TLV STEL NOT ESTAB OSHA PEL NOT ESTAB CEILING NOT ESTAB RECOMND NOT ESTAB
CAS: TRADE SECRET			
COMMON (NA): IRON OXIDE		9.1%	TLV TWA NOT ESTAB TLV STEL NOT ESTAB OSHA PEL 5.00 MG/CU M CEILING NOT ESTAB RECOMND NOT ESTAB
CAS: 1309-37-1	CHEMICAL:		
COMMON (2): CRYSTALLINE SILICA		0.3%	TLV TWA 0.10 MG/CU M TLV STEL NOT ESTAB OSHA PEL 0.10 MG/CU M CEILING NOT ESTAB RECOMND NOT ESTAB
CAS: 14808-60-7	CHEMICAL: QUARTZ		
*COMMON (NA): N-BUTYL ALCOHOL		2.6%	TLV TWA 50.00 PPM TLV STEL NOT ESTAB OSHA PEL NOT ESTAB CEILING 50.00 (3) RECOMND NOT ESTAB
CAS: 71-36-3	CHEMICAL: 1-BUTANOL		
COMMON (NA): PROPRIETARY RESIN		20.5%	TLV TWA NOT ESTAB TLV STEL NOT ESTAB OSHA PEL NOT ESTAB CEILING NOT ESTAB RECOMND NOT ESTAB
CAS: TRADE SECRET			
*COMMON (4): FORMALDEHYDE		0.1%	TLV TWA 0.30 PPM TLV STEL 0.30 PPM OSHA PEL 0.75 PPM CEILING NOT ESTAB RECOMND NOT ESTAB
CAS: 50-00-0	CHEMICAL: FORMALDEHYDE		

185851097
PAGE 2
70-EHR008A-

***** SECTION 2: HAZARDOUS INGREDIENTS
COMMON (NA): PROPYLENE GLYCOL MONO METHYL ETHER AC 6.0

COMMON (NA): PROPYLENE GLYCOL MONO METHYL ETHER AC		6.0%	TLV TWA	NOT ESTAB
CAS: 108-65-6		CHEMICAL: 2-PROPANOL, 1-METHOXY-, A	TLV STEL	NOT ESTAB
CETATE			OSHA PEL	NOT ESTAB
			CEILING	NOT ESTAB
			RECOMM	NOT ESTAB

COMMON (NA): DIPROPYLENE GLYCOL METHYL ETHER	1.5%	TLV TWA	100.00 PPM
CAS: 34590-94-8	CHEMICAL: 2-PROPANOL, 1-(2-METHOXY-1-METHYLETHOXY) -	TLV STEL	150.00 (03)
		OSHA PEL	100.00 (03)
		CEILING	NOT ESTAB
		RECOMM	NOT ESTAB

*COMMON (NA): TOLUENE	6.0% TLV TWA	100.00 PPM
	TLV STEL	150.00 PPM
CAS: 108-88-3	OSHA PEL	100.00 PPM
CHEMICAL: PHENYL, METHYL	CEILING	NOT ESTAB
	RECOMMND	NOT ESTAB

COMMON (NA): DIMETHYL KETONE	4.8%	TLV TWA	250.00 PPM
CAS: 67-64-1	CHEMICAL: 2-PROPANONE	TLV STEL	NOT ESTAB
		OSHA PEL	250.00 PPM
		CEILING	NOT ESTAB
		RECOMM	NOT ESTAB

*COMMON (NA): METHYL ISOBUTYL KETONE	18.7%	TLV TWA	50.00 PPM
		TLV STEL	75.00 PPM
CAS: 108-10-1	CHEMICAL: 2-PENTANONE, 4-METHYL-	OSHA PEL	50.00 PPM
		CEILING	NOT ESTAB
		RECOMM	NOT ESTAB

CHEMICALS NOTED WITH A (*) ARE REPORTABLE UNDER SECTION 313 OF SARA TITLE III

- (1) = THIS MATERIAL IS A CARCINOGEN PER NTP
(2) = THIS MATERIAL IS A CARCINOGEN PER NTP, IARC
(3) = PPM SKIN
(4) = THIS MATERIAL IS A CARCINOGEN PER NTP, IARC, ACGIH

ALL COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH U.S. TSCA CHEMICAL
SUBSTANCE INVENTORY REQUIREMENTS.

***** SECTION 3: PHYSICAL DATA

BOILING POINT: 133 DEG F.
VAPOR PRESSURE MM HG AT 68 DEG F: 182.0
VAPOR DENSITY (AIR = 1): 5.1
SPECIFIC GRAVITY: 1.18
PERCENT VOLATILE BY VOLUME: 57.23
EVAPORATION RATE (BUTYL ACETATE = 1): 5.6
SOLUBILITY IN WATER: NO
APPEARANCE AND ODOR: NORMAL FOR A COATINGS PRODUCT.

***** SECTION 4: FIRE AND EXPLOSION HAZARD

```
FLASH POINT TCC/PM DEG F :      1
LOWER EXPLOSIVE LIMIT      :      1.00
UPPER EXPLOSIVE LIMIT      :     13.00
```

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM, AND/OR WATER FOG.

SPECIAL FIRE FIGHTING PROCEDURES:
FIRE FIGHTERS MUST WEAR SELF CONTAINED BREATHING APPARATUS OR AIR MASKS.
CONTAINERS EXPOSED TO FIRE SHOULD BE KEPT COOL WITH WATER SPRAY.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS:
NONE

VE HAZARDS:

Material Safety Data Sheet

Page : 1

Original Date: 01/11/2001

Revision Date: 01/31/2002

BASF CORPORATION
26701 TELEGRAPH ROAD

SOUTHFIELD, MI 48034
(248) 948-2010

EMERGENCY TELEPHONE: (800) 832-HELP BASF EMERGENCY RESPONSE
(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

105R31 3.50 VOC RED OXI 1

Product ID: NLI C25446

Common Chemical Name:

PAINT

Synonyms:

105R31 3.50 VOC RED OXI 1

Molecular Formula:

NOT AVAILABLE

Chemical Family: Paint

Molecular Wt.: NOT APPLICABLE

SECTION 2 - INGREDIENTS

Chemical Name:	CAS	Amount
ETHANOL	64-17-5	9.5 %
ACGIH TLV	TWA 1000 PPM	
OSHA PEL	TWA 1000 PPM	
CRYSTALLINE SILICA, QUARTZ	14808-60-7	8.7 %
ACGIH TLV	TWA 0.05 MG/CU. M	
IRON OXIDE	1332-37-2	2.5 %
PEL/TLV NOT ESTABLISHED		
TITANIUM DIOXIDE	1317-80-2	9.2 %
PEL/TLV NOT ESTABLISHED		
FORMALDEHYDE	50-00-0	0.9 %
ACGIH TLV	CEIL 0.3 PPM	
	STEL 0.3 PPM	
OSHA PEL	STEL 2 PPM	
	TWA 0.75 PPM	
PHENOL	108-95-2	1.3 %
ACGIH TLV	SKIN	
	TWA 5 PPM	
OSHA PEL	SKIN	
	TWA 5 PPM	
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	6.2 %
ACGIH TLV	SKIN	
	STEL 150 PPM	

SECTION 2 - INGREDIENTS (cont)

Chemical Name:			CAS		Amount	
			TWA	100 PPM		
ACETONE				67-64-1	4.9	%
ACGIH	TLV		STEL	750 PPM		
			TWA	500 PPM		
OSHA	PEL		TWA	1000 PPM		
1-BUTANOL				71-36-3	1.6	%
ACGIH	TLV		CEIL	50 PPM		
			SKIN			
OSHA	PEL		TWA	100 PPM		

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview

Color: Red
Form/Appearance: Liquid
Odor: Solvent

WARNING STATEMENT:

CAUTION:

WARNING:02 FLAMMABLE/COMBUSTIBLE LIQUID AND VAPOR. VAPOR AND SPRAY MIST HARMFUL IF INHALED. MAY CAUSE IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT. LIBERATES FORMALDEHYDE DURING CURING. POTENTIAL CANCER HAZARD. SOLVENT'S POTENTIAL HEALTH EFFECTS: INHALATION OVER-EXPOSURE MAY CAUSE POSSIBLE CNS DEPRESSION INCLUDING HEADACHE, NAUSEA, DROWSINESS, DIZZINESS, AND NARCOTIC EFFECTS. CHRONIC INHALATION OVEREXPOSURE MAY CAUSE LIVER AND KIDNEY ENLARGEMENT AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. FORMALDEHYDE'S POTENTIAL HEALTH EFFECTS: REPEATED OVER-EXPOSURE MAY RESULT IN ALLERGIC SENSITIZATION TO BOTH SKIN AND LUNGS. THIS POTENTIAL HAZARD IS DUE TO FORMALDEHYDE BEING GENERATED DURING THE BAKING PROCESS. THE HAZARD IS EXPECTED AROUND AREAS WHERE THE CURING/BAKING PROCESS OCCURS. CHRONIC INHALATION STUDIES IN RATS SHOW THAT FORMALDEHYDE CAUSES NASAL CANCER. IARC HAS CLASSIFIED FORMALDEHYDE AS A CARCINOGEN IN GROUP 2A, AND THE NTP INCLUDES FORMALDEHYDE IN ITS ANNUAL REPORT ON CARCINOGENS. RISK TO YOUR HEALTH DEPENDS UPON THE LEVEL AND DURATION OF EXPOSURE.

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Potential Health Effects

Primary Routes of Exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute Overexposure Effects:

Contact with eyes, skin, respiratory tract, or mucous membranes will cause irritation.

Dermal contact may cause defatting and drying.

SECTION 3 - HAZARDS IDENTIFICATION (cont)

Acute exposures to relatively large amounts of acetone can result in local effects, such as irritation to eyes, nose, throat, and respiratory tract as well as systemic effects such as central nervous system (CNS) depression, which can range in severity from lightheadedness to loss of consciousness depending on the magnitude and length of the exposure.

Acute overexposure to high vapor concentrations of butanol may produce central nervous system depression and irritation to the mucous membranes. Severe eye irritation with burning sensation, blurring of vision, lachrymation and photophobia has been known to occur in workers exposed up to 200 ppm. Overexposure in workers outside of the United States has been reported to produce effects like auditory nerve damage, vestibular injury and increased hearing loss. Acute dermal contact may produce skin irritation and dermatitis.

Inhalation or ingestion overexposure to ethanol may cause CNS depression, headache, nausea, incoordination, narcosis, and unconsciousness. Symptoms may occur at airborne levels of 1000 to 5000 ppm. Direct contact with the liquid may produce stinging and burning sensation. Vapors may produce irritation to the eyes and upper respiratory tract.

Formaldehyde is highly irritating to the upper respiratory tract and eyes, nose, throat and lungs. Repeated exposure may lead to sensitization in some individuals. Formaldehyde overexposure can cause symptoms of bronchial asthma, either by direct irritation or sensitization. Inhalation may cause irritation to the respiratory tract, breathing difficulties, coughing, CNS effects, pneumonitis and pulmonary edema.

Inhalation of vapors may cause narcotic effects characterized by weakness, dizziness, headaches, and nausea with vomiting. May cause asphyxiation at higher concentrations.

Phenol is very toxic by ingestion. Phenol is rapidly absorbed through the skin, by inhalation and ingestion. Other symptoms of acute phenol overexposure include headache, cough, loss of appetite, nervousness, weight loss, and kidney damage. Direct contact with vapor or liquid may be highly corrosive to the skin and eyes.

Chronic Overexposure Effects:

High doses of acetone (500 and 2500 mg/kg/day) administered by oral gavage to rats for 90 consecutive days resulted in some clinical chemistry and blood changes as well as increased absolute/relative liver and kidney weights. Histopathological examination of both organs showed acetone did not affect the liver but appeared to accentuate the kidney changes which accompany aging. No effects were observed at 100 mg/kg/day. Chronic occupational exposures to acetone at levels ranging from 300 to 100 ppm have reportedly been associated with irritation and mild CNS effects but have not affected clinical chemistry parameters or worker mortality.

Chronic dermal exposures to butanol may cause drying and fissuring of the skin. Liver, lung, and kidney effects have been noted in guinea pigs after repeated inhalation exposures up to 100 ppm. Developmental effects like skeletal malformations in the presence of maternal toxicity has been reported to occur at very high doses (8000 ppm) in

SECTION 3 - HAZARDS IDENTIFICATION (cont)

rats.

Chronic overexposure to ethanol results in liver damage and poor general health. Repeated exposures have been known to produce testicular effects in experimental animals. High ethanol concentrations have been shown to produce reduced fetal body weights increased resorptions and teratogenic effects in a number of species. Fetal alcohol syndrome has been known to occur in pregnant women after chronic alcohol ingestion.

Chronic inhalation studies in animals have shown that formaldehyde causes nasal cancer in rats. The International Agency for Research on Cancer (IARC) has classified formaldehyde as a carcinogen in Group 2A, and the National Toxicology Program (NTP) included formaldehyde in its Annual Report on Carcinogens. OSHA regulates formaldehyde in 29 CFR 1910.1048.

Dermal contact may result in dermatitis.

Phenol produced developmental toxicity in rats when treated orally up to 180 mg/kg/day. No carcinogenic effect was found in rats and mice given up to 5,000 ppm phenol in drinking water.

Overexposure to crystalline silica results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses. The International Agency for Research on Cancer (IARC) has classified crystalline silica in Group 1 (those agents with evidence of carcinogenicity to humans) and National Toxicology Program (NTP) has included it in its Annual Report on Carcinogens.

In a National Cancer Institute (NCI) feeding study, titanium dioxide was not carcinogenic to rats or mice at maximum tolerated doses. In another study, TiO₂ caused fibrosis and lung cancer in rats exposed to 250 mg/m³ by inhalation. However, no effects were seen at lower airborne concentrations.

First Aid Procedures - Aggravated Medical Conditions:

None known.

SECTION 4 - FIRST AID MEASURES

First Aid Procedures - Skin:

Wash exposed area with water for at least 15 minutes. If dermal irritation persists, consult a physician.

First Aid Procedures - Eyes:

Irrigate with water for at least 15 minutes. Hold eyelids apart to facilitate rinsing. If irritation persists, consult a physician.

First Aid Procedures - Ingestion:

Do not induce vomiting. If conscious, give large amounts of water or milk. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

First Aid Procedures - Inhalation:

Remove to fresh air. Restore breathing. Treat symptomatically.

First Aid Procedures - Notes to Physicians:

None known.

First Aid Procedures - Aggravated Medical Conditions:

None known.

First Aid Procedures - Special Precautions:

None

SECTION 4 - FIRST AID MEASURES (cont)

Other First Aid Procedures:

The use of products which contain or liberate formaldehyde is regulated under the OSHA Formaldehyde Standard (29CFR1910.1048). Consult the standard for medical surveillance requirements. Remove contaminated clothing, properly launder or destroy.

SECTION 5 - FIRE FIGHTING MEASURES

	Typical	Low/High	Deg.	Method
Flash Point:	~ 65			F CALCULATED
Autoignition:	NOT AVAILABLE			
Flam. Limits:		1.1 - 21	%	

Extinguishing Media:

Multipurpose dry chemical type extinguisher.

Fire Fighting Procedures:

Use a self-contained breathing apparatus in order to prevent exposure to toxic vapors and/or decomposition products. Water spray may be used to keep fire exposed container cool. Wear protective clothing. Do not flood burning material with water due to potential spreading of fire. Vapors and/or decomposition products are irritants and/or toxic.

Unusual Hazards:

Vapors are heavier than air and may accumulate in low areas. Escaping vapors may cause flash fire and ignite explosively in the presence of an ignition source. Closed containers may explode due to pressure build-up when exposed to extreme heat. Avoid excessive heat, open flames, and sparks from electrical equipment or static discharge.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General:

Eliminate all sources of ignition. Wear protective equipment. Dike spill, collect with absorbent material, and remove to appropriately labeled waste containers. Use non-sparking tools for clean-up. Flush area with water after disposal. Avoid discharge into sewers and waterways. Contact the authorities if this event should occur. Avoid eye and dermal contact. Insure adequate ventilation.

Other Spill/Leak Procedures:

No other spill procedures necessary.

SECTION 7 - STORAGE AND HANDLING

General:

Store away from excessive heat and ignition sources. Store away from incompatible materials (See Section 10). Avoid contact with eyes, skin, and clothing. Avoid breathing vapors. Store in tightly closed containers. Do not puncture, drop (>5 inches), or slide containers. All handling equipment should be electrically grounded and explosion-proof. Wash thoroughly after handling. Open containers slowly in order to release pressure.

Other Storage and Handling Data:

For industrial use only. Empty containers may still contain

SECTION 7 - STORAGE AND HANDLING (cont)

hazardous residue. Do not reuse containers without commercial reconditioning. Do not apply to hot surfaces. Proper respiratory protection is required when sanding or welding coated surfaces. Protect from direct sunlight.

SECTION 8 - PERSONAL PROTECTION

Clothing:

Chemical impervious gloves, boots, and apron or smock.

Eyes:

Chemical splash goggles. A face shield should be used if splashing is possible. Contact lenses should not be worn.

Respiration:

Use only with adequate ventilation. A NIOSH/MSHA approved organic vapor chemical cartridge respirator should be used if ventilation is inadequate. Observe OSHA regulations for respirator use (29 CFR 1910.134). Particulate filters should be added during spray operations.

Ventilation:

Provide adequate room ventilation to maintain vapor concentration below an acceptable exposure level. Provide local exhaust ventilation at points of vapor emission. Special: As required to remove solvent vapors from lower levels or work areas or exposure to ignition sources. Use explosion-proof ventilation equipment. Minimal concentrations of free formaldehyde will be liberated during the crosslinking/curing process (i.e. baking) that occurs in automotive curing ovens. Proper exhaust ventilation of the ovens is necessary to control workplace formaldehyde concentrations.

Explosion Proofing:

Tools should be non-sparking. Exhaust fans should be explosion proof.

Other Personal Protection Data:

An eye wash and safety shower should be available.

SECTION 9 - PHYSICAL PROPERTIES

Color:	Red					
Form/Appearance:	Liquid					
Odor:	Solvent					
Odor Intensity:	Moderate					
	Typical	Low/High	U.O.M.			
Specific Gravity:	1.231					
pH:	NOT AVAILABLE					
	Typical	Low/High	Deg.	@	Pressure	
Boiling Pt:	147	- 378	F	760	MM HG	
Freezing Pt:	NOT AVAILABLE					
Decomp. Tmp:	NOT AVAILABLE					
Solubility in Water Description:	Insoluble					
Evaporation Rate:	< 1	NONE			20	DEG. C
Vapor Pressure:	~ 16.67	MM HG	X		20	DEG. C XX

NLI C25446

Page : 7

SECTION 9 - PHYSICAL PROPERTIES (cont)

	Typical	Low/High	U.O.M.	@ Temperature
Vapor Density (Air = 1):		HEAVIER THAN AIR		
Evaporation Rate Std.:		BUTYL ACETATE		

SECTION 10 - STABILITY AND REACTIVITY

Stability Data:

Product is stable under normal conditions.

Incompatibility:

Oxidizing agents.

Strong bases.

Conditions/Hazards to Avoid:

Excessive heat.

Sparks, open flames, and all other ignition sources.

Hazardous Decomposition/Polymerization:

Oxides of carbon.

Smoke.

Acrid vapors and/or gases.

Oxides of nitrogen.

Free formaldehyde.

Hazardous polymerization will not occur.

Corrosive Properties:

Not Corrosive.

Oxidizer Properties:

Not an oxidizer.

Other Reactivity Data:

None known.

SECTION 11 - TOXICOLOGICAL INFORMATION

No applicable data for this section.

SECTION 12 - ECOLOGICAL INFORMATION

No applicable data for this section.

SECTION 13 - DISPOSAL CONSIDERATION

Waste Disposal:

The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Dispose of in accordance with federal, state and local regulations concerning health and pollution. Incineration is the recommended method of disposal. Do not incinerate closed containers. Harmful to aquatic life. Avoid the contamination of streams, lakes or ponds.

Container Disposal:

Not applicable.

SECTION 14 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

CEE BELOW

105R31 3.50 VOC RED OXI 1
NLI C25446

Page : 8

SECTION 14 - TRANSPORTATION INFORMATION (cont)

DOT Technical Name:

SEE BELOW

DOT Primary Hazard Class:

SEE BELOW

DOT Secondary Hazard Class:

SEE BELOW

DOT Label Required:

SEE BELOW

DOT Placard Required:

SEE BELOW

DOT Poison Constituent:

SEE BELOW

BASF Commodity Codes:

UN/NA Code:

E/R Guide:

Bill of Lading Description:

PAINT, 3, UN1263, PG II.

SECTION 15 - REGULATORY INFORMATION

SARA - 313 Listed Chemicals:

CAS:	50-00-0	AMOUNT:	0.9 %
NAME:	FORMALDEHYDE		
CAS:	108-95-2	AMOUNT:	1.3 %
NAME:	PHENOL		
CAS:	71-36-3	AMOUNT:	1.6 %
NAME:	1-BUTANOL		

State Regulatory Information: (By Component)

NJ/PA/MA RTK

CAS:	50-00-0	YES
NAME:	FORMALDEHYDE	
CAS:	64-17-5	YES
NAME:	ETHANOL	
CAS:	67-64-1	YES
NAME:	ACETONE	
CAS:	71-36-3	YES
NAME:	1-BUTANOL	
CAS:	108-95-2	YES
NAME:	PHENOL	
CAS:	1317-80-2	YES
NAME:	TITANIUM DIOXIDE	
CAS:	7732-18-5	YES
NAME:	WATER	
CAS:	9003-35-4	YES
NAME:	PHENOL, POLYMER WITH FORM	
CAS:	14808-60-7	YES
NAME:	CRYSTALLINE SILICA, QUARTZ	
CAS:	28470-78-2	YES
NAME:	FORMALDEHYDE, POLYMER WIT	
CAS:	34590-94-8	YES
NAME:	DIPROPYLENE GLYCOL METHYL ETHER	

NLI C25446

Page : 9

SECTION 16 - OTHER INFORMATION

Hazard Ratings:

BASF currently uses the National Paint & Coating Association (NPCA) rating system. The use of an asterisk (*) in the HMIS rating indicates the potential for chronic health effects.

	Health:	Fire:	Reactivity:	Special:
HMIS	2*	3	0	NA

"IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK".

END OF DATA SHEET

BASF Corporation

BASF

Friday, April 12, 2002

Customer#:

Palex/IFCO

Attn: Kay

Attached is/are the current Material Safety Data Sheets (MSDS) you have requested for the following products.

Product ID	Product Name
C25447	105R35 SERIES 300 BROWN 1
C51139	106R33 SERIES 300 BROWN 1
C25446	105R31 3.50 VOC RED OXI 1

Comments

MSDS for 105R35, 106R33 and 105R31 per your request.

Very truly yours,
BASF Corporation

LAURIE E UBERAS

ADMIN ASSOC VI

Total number of pages including cover: 27

Material Safety Data Sheet

Page : 1

Original Date: 05/03/2001

Revision Date: 04/12/2002

BASF CORPORATION
26701 TELEGRAPH ROAD

SOUTHFIELD, MI 48034

(248) 948-2010

EMERGENCY TELEPHONE: (800) 832-HELP BASF EMERGENCY RESPONSE
(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

106R33 SERIES 300 BROWN 1

Product ID: NLI C51139

Common Chemical Name:

PAINT

Synonyms:

106R33 SERIES 300 BROWN 1

Molecular Formula:

NOT AVAILABLE

Chemical Family: Paint

Molecular Wt.: NOT APPLICABLE

SECTION 2 - INGREDIENTS

Chemical Name:	CAS	Amount
PHENOL	108-95-2	1.2 %
ACGIH TLV	SKIN	
	TWA	5 PPM
OSHA PEL	SKIN	
	TWA	5 PPM
CARBON BLACK	1333-86-4	0.1 %
ACGIH TLV	TWA	3.5 MG/CU. M
OSHA PEL	TWA	3.5 MG/CU. M
ETHANAMINE, N,N-DIETHYL-	121-44-8	1.0 %
ACGIH TLV	SKIN	
	STEL	3 PPM
	TWA	1 PPM
OSHA PEL	TWA	25 PPM
ALUMINUM SILICATE	66402-68-4	5.8 %
PEL/TLV NOT ESTABLISHED		
IRON OXIDE	1332-37-2	16.3 %
PEL/TLV NOT ESTABLISHED		
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	11.6 %
ACGIH TLV	SKIN	
	STEL	150 PPM
	TWA	100 PPM

SECTION 2 - INGREDIENTS (cont)

Chemical Name:	CAS	Amount	
ACETONE	67-64-1	10.4	%
ACGIH TLV	STEL 750 PPM		
	TWA 500 PPM		
OSHA PEL	TWA 1000 PPM		
METHYL PROPYL KETONE	107-87-9	6.4	%
ACGIH TLV	STEL 250 PPM		
	TWA 200 PPM		
1-BUTANOL	71-36-3	6.3	%
ACGIH TLV	CEIL 50 PPM		
	SKIN		
	TWA 20 PPM		
OSHA PEL	TWA 100 PPM		
N-METHYLPYRROLIDONE	872-50-4	1.8	%
PEL/TLV NOT ESTABLISHED			

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview

Color: Brown
Form/Appearance: Liquid
Odor: Solvent

WARNING STATEMENT:

CAUTION:

WARNING:12 FLAMMABLE/COMBUSTIBLE LIQUID AND VAPOR. VAPOR AND SPRAY MIST HARMFUL IF INHALED. MAY CAUSE IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT. SOLVENT'S POTENTIAL HEALTH EFFECTS: INHALATION OVEREXPOSURE MAY CAUSE POSSIBLE CNS DEPRESSION INCLUDING HEADACHE, NAUSEA, SEA, DROWSINESS, DIZZINESS, AND NARCOTIC EFFECTS. CHRONIC INHALATION OVEREXPOSURE MAY CAUSE LIVER AND KIDNEY ENLARGEMENT AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. NICKEL'S POTENTIAL HEALTH EFFECTS: SKIN CONTACT WITH NICKEL COMPOUNDS CAN RESULT IN CHRONIC DERMATITIS. CHRONIC NICKEL INHALATION EXPOSURE HAS CAUSED ADVERSE KIDNEY, THYROID AND LIVER EFFECTS IN ANIMALS. NICKEL COMPOUNDS ARE SUSPECT ANIMAL/HUMAN CARCINOGENS. NICKEL ANTIMONY TITANATE PIGMENTS ARE NOT LISTED IN THE GROUP OF NICKEL COMPOUNDS KNOWN TO CAUSE CANCER IN HUMANS OR ANIMALS.

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

Potential Health Effects

Primary Routes of Exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute Overexposure Effects:

Contact with eyes, skin, respiratory tract, or mucous membranes will cause irritation.

SECTION 3 - HAZARDS IDENTIFICATION (cont)

Dermal contact may cause defatting and drying.

Acute exposures to relatively large amounts of acetone can result in local effects, such as irritation to eyes, nose, throat, and respiratory tract as well as systemic effects such as central nervous system (CNS) depression, which can range in severity from lightheadedness to loss of consciousness depending on the magnitude and length of the exposure.

Overexposure to Antimony dust or fumes may cause dermatitis, liver damage, severe irritation of the eyes, nasal passages, throat and lungs.

Acute overexposure to high vapor concentrations of butanol may produce central nervous system depression and irritation to the mucous membranes. Severe eye irritation with burning sensation, blurring of vision, lachrymation and photophobia has been known to occur in workers exposed up to 200 ppm. Overexposure in workers outside of the United States has been reported to produce effects like auditory nerve damage, vestibular injury and increased hearing loss. Acute dermal contact may produce skin irritation and dermatitis.

Acute exposure to carbon black dusts may be irritating to the eyes, skin and respiratory tract.

Prolonged or repeated skin contact with methyl propyl ketone may result in dermatitis. Human exposure to 1500 ppm methyl propyl ketone vapors caused irritation of the eyes and nose. Inhalation overexposure may result in narcosis and weakness. Severe overexposure may result in unconsciousness.

Acute ingestion overexposures to nickel metal powder, chloride and oxide have been found to be highly toxic in experimental animals.

Dermal contact may result in a condition called nickel itch.

Inhalation of vapors may cause narcotic effects characterized by weakness, dizziness, headaches, and nausea with vomiting. May cause asphyxiation at higher concentrations.

NMP is moderately toxic by all routes of exposure; however, due to its low vapor pressure, dermal exposure represents the primary hazard in most settings. Contact with the liquid results in moderate eye irritation and may cause temporary corneal clouding. Skin contact results in mild irritation; prolonged skin contact may cause redness and dermatitis. Inhalation of the vapors of NMP may result in respiratory irritation. Accidental ingestion of the liquid causes gastric disturbances and may result in nausea and vomiting.

Phenol is very toxic by ingestion. Phenol is rapidly absorbed through the skin, by inhalation and ingestion. Other symptoms of acute phenol overexposure include headache, cough, loss of appetite, nervousness, weight loss, and kidney damage. Direct contact with vapor or liquid may be highly corrosive to the skin and eyes.

Inhalation of triethylamine vapors may result in respiratory irritation; prolonged inhalation exposure may result in lung injury. Severe inhalation overexposure may cause central nervous system stimulation. Overexposure to some amine vapors may result in a condition known as "blue haze" or "glaucopsia". Symptoms of blue haze may include blurred vision, appearance of looking through a blue haze, and the appearance of halos around bright objects. The effect

SECTION 3 - HAZARDS IDENTIFICATION (cont)

disappears within a few hours and produces no long-term effects.

Chronic Overexposure Effects:

High doses of acetone (500 and 2500 mg/kg/day) administered by oral gavage to rats for 90 consecutive days resulted in some clinical chemistry and blood changes as well as increased absolute/relative liver and kidney weights. Histopathological examination of both organs showed acetone did not affect the liver but appeared to accentuate the kidney changes which accompany aging. No effects were observed at 100 mg/kg/day. Chronic occupational exposures to acetone at levels ranging from 300 to 100 ppm have reportedly been associated with irritation and mild CNS effects but have not affected clinical chemistry parameters or worker mortality.

Chronic exposures to antimony may cause indigestion, loss of appetite, diarrhea, muscular pains, and dizziness. Chronic inhalation can cause pneumoconiosis. Cardiac complications from therapeutic use have been reported. A study of female workers exposed to antimony compounds revealed higher incidences of spontaneous abortions, premature births, and gynecological problems. ACGIH lists the production of antimony trioxide as being suspect in causing cancer in humans. A retrospective study revealed an increased incidence of lung cancer among antimony smelter workers. IARC has included antimony in Group 2B.

Chronic dermal exposures to butanol may cause drying and fissuring of the skin. Liver, lung, and kidney effects have been noted in guinea pigs after repeated inhalation exposures up to 100 ppm. Developmental effects like skeletal malformations in the presence of maternal toxicity has been reported to occur at very high doses (8000 ppm) in rats.

Prolonged inhalation exposures may produce cough, phlegm, tiredness, chest pain and headache. Dermal, inhalation or mucosal exposures may cause irritation. Chronic exposures to carbon black have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease) in workers. IARC has classified carbon black in Group 2B (sufficient evidence of carcinogenicity in animals).

Chronic overexposures to nickel and nickel compounds may result in bronchitis. IARC has classified nickel in Group I (agents carcinogenic to humans). Nickel is also listed in the NTP Annual Report Carcinogens. Nickel has been found to be embryotoxic and fetotoxic in experimental animals.

Dermal contact may result in dermatitis.

In animal studies NMP was embryotoxic by the oral, dermal and intra-peritoneal routes, but only after repeated high doses that approached the LD50 or were maternally toxic. Embryotoxicity without maternal toxicity was observed at a high concentration in one rat inhalation study, but not in others. Testicular effects in rats were noted after repeated, high-dose oral and inhalation exposures. NMP was not carcinogenic in rats receiving lifetime exposures via inhalation (100 ppm) or the diet. This product contains a chemical known to the state of California to cause birth defects or other reproductive harm. In a mouse cancer study, high doses of NMP produced liver carcinomas & adenomas in males (1089 Mg/kg) and liver adenomas in females (1399 mg/kg). Middle doses caused liver hypertrophy in

SECTION 3 - HAZARDS IDENTIFICATION (cont)

males (173 mg/kg) but not females (221 mg/kg). No effects were noted at low doses in either males (89 mg/kg) or females (115 mg/kg). Phenol produced developmental toxicity in rats when treated orally up to 180 mg/kg/day. No carcinogenic effect was found in rats and mice given up to 5,000 ppm phenol in drinking water.

Triethylamine has been shown to cause liver and kidney damage when administered to animals.

First Aid Procedures - Aggravated Medical Conditions:

None known.

SECTION 4 - FIRST AID MEASURES

First Aid Procedures - Skin:

Wash exposed area with water for at least 15 minutes. If dermal irritation persists, consult a physician.

First Aid Procedures - Eyes:

Irrigate with water for at least 15 minutes. Hold eyelids apart to facilitate rinsing. If irritation persists, consult a physician.

First Aid Procedures - Ingestion:

Do not induce vomiting. If conscious, give large amounts of water or milk. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

First Aid Procedures - Inhalation:

Remove to fresh air. Restore breathing. Treat symptomatically.

First Aid Procedures - Notes to Physicians:

None known.

First Aid Procedures - Aggravated Medical Conditions:

None known.

First Aid Procedures - Special Precautions:

None

Other First Aid Procedures:

Remove contaminated clothing, properly launder or destroy.

SECTION 5 - FIRE FIGHTING MEASURES

	Typical	Low/High	Deg.	Method
Flash Point:	~ 1			F CALCULATED
Autoignition:	NOT AVAILABLE			
Flam. Limits:		1 - 20.7	%	

Extinguishing Media:

Multipurpose dry chemical type extinguisher.

Fire Fighting Procedures:

Use a self-contained breathing apparatus in order to prevent exposure to toxic vapors and/or decomposition products. Water spray may be used to keep fire exposed container cool. Wear protective clothing. Do not flood burning material with water due to potential spreading of fire. Vapors and/or decomposition products are irritants and/or toxic.

Unusual Hazards:

Vapors are heavier than air and may accumulate in low areas. Escaping vapors may cause flash fire and ignite explosively in the presence of an ignition source. Closed containers may explode due to

SECTION 5 - FIRE FIGHTING MEASURES (cont)

pressure build-up when exposed to extreme heat. Avoid excessive heat, open flames, and sparks from electrical equipment or static discharge.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General:

Eliminate all sources of ignition. Wear protective equipment. Dike spill, collect with absorbent material, and remove to appropriately labeled waste containers. Use non-sparking tools for clean-up. Flush area with water after disposal. Avoid discharge into sewers and waterways. Contact the authorities if this event should occur. Avoid eye and dermal contact. Insure adequate ventilation.

Other Spill/Leak Procedures:

No other spill procedures necessary.

SECTION 7 - STORAGE AND HANDLING

General:

Store away from excessive heat and ignition sources. Store away from incompatible materials (See Section 10). Avoid contact with eyes, skin, and clothing. Avoid breathing vapors. Store in tightly closed containers. Do not puncture, drop (>5 inches), or slide containers. All handling equipment should be electrically grounded and explosion-proof. Wash thoroughly after handling. Open containers slowly in order to release pressure.

Other Storage and Handling Data:

For industrial use only. Empty containers may still contain hazardous residue. Do not reuse containers without commercial reconditioning. Do not apply to hot surfaces. Proper respiratory protection is required when sanding or welding coated surfaces. Protect from direct sunlight.

SECTION 8 - PERSONAL PROTECTION

Clothing:

Chemical impervious gloves, boots, and apron or smock.

Eyes:

Chemical splash goggles. A face shield should be used if splashing is possible. Contact lenses should not be worn.

Respiration:

Use only with adequate ventilation. A NIOSH/MSHA approved organic vapor chemical cartridge respirator should be used if ventilation is inadequate. Observe OSHA regulations for respirator use (29 CFR 1910.134). Particulate filters should be added during spray operations.

Ventilation:

Provide adequate room ventilation to maintain vapor concentration below an acceptable exposure level. Provide local exhaust ventilation at points of vapor emission. As required to remove solvent vapors from lower levels or work areas or exposure to ignition sources. Use explosion-proof ventilation equipment.

Explosion Proofing:

Tools should be non-sparking. Exhaust fans should be explosion

SECTION 8 - PERSONAL PROTECTION (cont)

proof.

Other Personal Protection Data:

An eye wash and safety shower should be available.

SECTION 9 - PHYSICAL PROPERTIES

Color:	Brown					
Form/Appearance:	Liquid					
Odor:	Solvent					
Odor Intensity:	Moderate					
	Typical	Low/High		U.O.M.		
Specific Gravity:	1.216					
pH:	NOT AVAILABLE					
	Typical	Low/High	Deg.	@	Pressure	
Boiling Pt:	148	- 362	F	760	MM HG	
Freezing Pt:	NOT AVAILABLE					
Decomp. Temp:	NOT AVAILABLE					
Solubility in Water Description:	Miscible					
Evaporation Rate:	< 1	NONE			20	DEG. C
Vapor Pressure:	-	2.526 MM HG		X	20	DEG. C XX
Vapor Density (Air = 1):	HEAVIER THAN AIR					
Evaporation Rate Std.:	BUTYL ACETATE					

SECTION 10 - STABILITY AND REACTIVITY

Stability Data:

Product is stable under normal conditions.

Incompatibility:

Oxidizing agents.

Conditions/Hazards to Avoid:

Excessive heat.

Sparks, open flames, and all other ignition sources.

Hazardous Decomposition/Polymerization:

Oxides of carbon.

Smoke.

Acrid vapors and/or gases.

Oxides of nitrogen.

Hazardous polymerization will not occur.

Corrosive Properties:

Not Corrosive.

Oxidizer Properties:

Not an oxidizer.

Other Reactivity Data:

None known.

SECTION 11 - TOXICOLOGICAL INFORMATION

No applicable data for this section.

SECTION 12 - ECOLOGICAL INFORMATION

No applicable data for this section.

SECTION 13 - DISPOSAL CONSIDERATION

Waste Disposal:

The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Dispose of in accordance with federal, state and local regulations concerning health and pollution. Incineration is the recommended method of disposal. Do not incinerate closed containers. Harmful to aquatic life. Avoid the contamination of streams, lakes or ponds.

Container Disposal:

Not applicable.

SECTION 14 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

SEE BELOW

DOT Technical Name:

SEE BELOW

DOT Primary Hazard Class:

SEE BELOW

DOT Secondary Hazard Class:

SEE BELOW

DOT Label Required:

SEE BELOW

DOT Placard Required:

SEE BELOW

DOT Poison Constituent:

SEE BELOW

BASF Commodity Codes:

UN/NA Code:

E/R Guide:

Bill of Lading Description:

PAINT,3,UN1263,PGII.

SECTION 15 - REGULATORY INFORMATION

SARA - 313 Listed Chemicals:

CAS:	108-95-2	AMOUNT:	1.2 %
NAME:	PHENOL		
CAS:	121-44-8	AMOUNT:	1.0 %
NAME:	ETHANAMINE, N,N-DIETHYL-		
CAS:	1	AMOUNT:	5.8 %
NAME:	BARIUM COMPOUNDS		
CAS:	16	AMOUNT:	5.8 %
NAME:	NICKEL COMPOUNDS		
CAS:	7	AMOUNT:	5.8 %
NAME:	ANTIMONY COMPOUNDS		
CAS:	71-36-3	AMOUNT:	6.3 %
NAME:	1-BUTANOL		
CAS:	872-50-4	AMOUNT:	1.8 %
NAME:	N-METHYLPYRROLIDONE		

State Regulatory Information: (By Component)

NJ/PA/MA RTK

CAS: *NL/RB1339

YES

NAME: HRJ-13078 COMPONENT

SECTION 15 - REGULATORY INFORMATION (cont)

State Regulatory Information: (By Component)

NJ/PA/MA RTK

NJ/PA/MA RTK

CAS:	67-64-1	YES
NAME:	ACETONE	
CAS:	71-36-3	YES
NAME:	1-BUTANOL	
CAS:	107-87-9	YES
NAME:	METHYL PROPYL KETONE	
CAS:	108-95-2	YES
NAME:	PHENOL	
CAS:	1332-37-2	YES
NAME:	IRON OXIDE	
CAS:	7732-18-5	YES
NAME:	WATER	
CAS:	34590-94-8	YES
NAME:	DIPROPYLENE GLYCOL METHYL ETHER	

SECTION 16 - OTHER INFORMATION

Hazard Ratings:

BASF currently uses the National Paint & Coating Association (NPCA) rating system. The use of an asterisk (*) in the HMIS rating indicates the potential for chronic health effects.

	Health:	Fire:	Reactivity:	Special:
HMIS	2*	3	0	NA

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

"IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK".

END OF DATA SHEET

Material Safety Data Sheet

Page : 1

Original Date: 12/20/2000

Revision Date: 10/11/2001

BASF CORPORATION

26701 TELEGRAPH ROAD

SOUTHFIELD, MI 48034

(248) 948-2010

EMERGENCY TELEPHONE: (800) 832-HELP BASF EMERGENCY RESPONSE

(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

105R35 SERIES 300 BROWN 1

Product ID: NLI C25447

Common Chemical Name:

PAINT RELATED MATERIAL

Synonyms:

105R35 SERIES 300 BROWN 1

Molecular Formula:

NOT AVAILABLE

Chemical Family: Paint Related Material

Molecular Wt.: NOT APPLICABLE

SECTION 2 - INGREDIENTS

Chemical Name:	CAS	Amount
ETHANOL	64-17-5	1.6 %
ACGIH TLV	TWA 1000 PPM	
OSHA PEL	TWA 1000 PPM	
CARBON BLACK	1333-86-4	0.2 %
ACGIH TLV	TWA 3.5 MG/CU. M	
OSHA PEL	TWA 3.5 MG/CU. M	
IRON OXIDE	1332-37-2	20.9 %
PEL/TLV NOT ESTABLISHED		
1-BUTANOL	71-36-3	2.3 %
ACGIH TLV	CEIL 50 PPM	
	SKIN	
OSHA PEL	TWA 100 PPM	
n-PROPOXYPROPANOL	1569-01-3	16.3 %
PEL/TLV NOT ESTABLISHED		
ETHYL 3-ETHOXYPROPIONATE	763-69-9	5.9 %
PEL/TLV NOT ESTABLISHED		
ACETONE	67-64-1	10.8 %
ACGIH TLV	STEL 750 PPM	
	TWA 500 PPM	
OSHA PEL	TWA 1000 PPM	
METHYL ETHYL KETONE	78-93-3	7.8 %
ACGIH TLV	STEL 300 PPM	

SECTION 2 - INGREDIENTS (cont)

Chemical Name:		CAS		Amount
		TWA	200	PPM
OSHA	PEL	TWA	200	PPM

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview

Color: Brown
Form/Appearance: Liquid
Odor: Solvent

WARNING STATEMENT:

CAUTION:

WARNING:01 FLAMMABLE/COMBUSTIBLE LIQUID AND VAPOR. VAPOR AND SPRAY MIST HARMFUL IF INHALED. MAY CAUSE IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT. SOLVENTS POTENTIAL HEALTH EFFECTS: INHALATION OVEREXPOSURE MAY CAUSE POSSIBLE CNS DEPRESSION, HEADACHE, NAUSEA, DROWSINESS, DIZZINESS AND NARCOTIC EFFECTS. CHRONIC INHALATION OVEREXPOSURE MAY CAUSE LIVER AND KIDNEY ENLARGEMENT AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Potential Health Effects

Primary Routes of Exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute Overexposure Effects:

Contact with eyes, skin, respiratory tract, or mucous membranes will cause irritation.

Dermal contact may cause defatting and drying.

Acute exposures to relatively large amounts of acetone can result in local effects, such as irritation to eyes, nose, throat, and respiratory tract as well as systemic effects such as central nervous system (CNS) depression, which can range in severity from lightheadedness to loss of consciousness depending on the magnitude and length of the exposure.

Acute overexposure to high vapor concentrations of butanol may produce central nervous system depression and irritation to the mucous membranes. Severe eye irritation with burning sensation, blurring of vision, lachrymation and photophobia has been known to occur in workers exposed up to 200 ppm. Overexposure in workers outside of the United States has been reported to produce effects like auditory nerve damage, vestibular injury and increased hearing loss. Acute dermal contact may produce skin irritation and dermatitis.

Acute exposure to carbon black dusts may be irritating to the eyes,

SECTION 3 - HAZARDS IDENTIFICATION (cont)

skin and respiratory tract.

Inhalation or ingestion overexposure to ethanol may cause CNS depression, headache, nausea, incoordination, narcosis, and unconsciousness. Symptoms may occur at airborne levels of 1000 to 5000 ppm. Direct contact with the liquid may produce stinging and burning sensation. Vapors may produce irritation to the eyes and upper respiratory tract.

Inhalation of high concentrations of methyl ethyl ketone may produce irritation to the nose, throat and eyes; CNS effects and peripheral neuropathy. Ingestion of high oral doses may produce liver damage. Inhalation of vapors may cause narcotic effects characterized by weakness, dizziness, headaches, and nausea with vomiting. May cause asphyxiation at higher concentrations.

Chronic Overexposure Effects:

High doses of acetone (500 and 2500 mg/kg/day) administered by oral gavage to rats for 90 consecutive days resulted in some clinical chemistry and blood changes as well as increased absolute/relative liver and kidney weights. Histopathological examination of both organs showed acetone did not affect the liver but appeared to accentuate the kidney changes which accompany aging. No effects were observed at 100 mg/kg/day. Chronic occupational exposures to acetone at levels ranging from 300 to 100 ppm have reportedly been associated with irritation and mild CNS effects but have not affected clinical chemistry parameters or worker mortality.

Chronic dermal exposures to butanol may cause drying and fissuring of the skin. Liver, lung, and kidney effects have been noted in guinea pigs after repeated inhalation exposures up to 100 ppm. Developmental effects like skeletal malformations in the presence of maternal toxicity has been reported to occur at very high doses (8000 ppm) in rats.

Prolonged inhalation exposures may produce cough, phlegm, tiredness, chest pain and headache. Dermal, inhalation or mucosal exposures may cause irritation. Chronic exposures to carbon black have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease) in workers. IARC has classified carbon black in Group 2B (sufficient evidence of carcinogenicity in animals).

Chronic overexposure to ethanol results in liver damage and poor general health. Repeated exposures have been known to produce testicular effects in experimental animals. High ethanol concentrations have been shown to produce reduced fetal body weights increased resorptions and teratogenic effects in a number of species. Fetal alcohol syndrome has been known to occur in pregnant women after chronic alcohol ingestion.

Methyl ethyl ketone was teratogenic and embryotoxic to rats by inhalation at concentrations of 1,000 and 3,000 ppm. Repeated skin contact may result in dermatitis.

Dermal contact may result in dermatitis.

First Aid Procedures - Aggravated Medical Conditions:

None known.

SECTION 4 - FIRST AID MEASURES

First Aid Procedures - Skin:

Wash exposed area with water for at least 15 minutes. If dermal irritation persists, consult a physician.

First Aid Procedures - Eyes:

Irrigate with water for at least 15 minutes. Hold eyelids apart to facilitate rinsing. If irritation persists, consult a physician.

First Aid Procedures - Ingestion:

Do not induce vomiting. If conscious, give large amounts of water or milk. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

First Aid Procedures - Inhalation:

Remove to fresh air. Restore breathing. Treat symptomatically.

First Aid Procedures - Notes to Physicians:

None known.

First Aid Procedures - Aggravated Medical Conditions:

None known.

First Aid Procedures - Special Precautions:

None

Other First Aid Procedures:

Remove contaminated clothing, properly launder or destroy.

SECTION 5 - FIRE FIGHTING MEASURES

	Typical	Low/High	Deg.	Method
Flash Point:	~ -4			F CALCULATED
Autoignition:	NOT AVAILABLE			
Flam. Limits:		0.8 - 11.2	%	
Extinguishing Media:				

Multipurpose dry chemical type extinguisher.

Fire Fighting Procedures:

Use a self-contained breathing apparatus in order to prevent exposure to toxic vapors and/or decomposition products. Water spray may be used to keep fire exposed container cool. Wear protective clothing. Do not flood burning material with water due to potential spreading of fire. Vapors and/or decomposition products are irritants and/or toxic.

Unusual Hazards:

Vapors are heavier than air and may accumulate in low areas. Escaping vapors may cause flash fire and ignite explosively in the presence of an ignition source. Closed containers may explode due to pressure build-up when exposed to extreme heat. Avoid excessive heat, open flames, and sparks from electrical equipment or static discharge.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General:

Eliminate all sources of ignition. Wear protective equipment. Dike spill, collect with absorbent material, and remove to appropriately labeled waste containers. Use non-sparking tools for clean-up. Flush area with water after disposal. Avoid discharge into sewers and waterways. Contact the authorities if this event should occur.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (cont)

Avoid eye and dermal contact. Insure adequate ventilation.

Other Spill/Leak Procedures:

No other spill procedures necessary.

SECTION 7 - STORAGE AND HANDLING

General:

Store away from excessive heat and ignition sources. Store away from incompatible materials (See Section 10). Avoid contact with eyes, skin, and clothing. Avoid breathing vapors. Store in tightly closed containers. Do not puncture, drop (>5 inches), or slide containers. All handling equipment should be electrically grounded and explosion-proof. Wash thoroughly after handling. Open containers slowly in order to release pressure.

Other Storage and Handling Data:

For industrial use only. Empty containers may still contain hazardous residue. Do not reuse containers without commercial reconditioning. Do not apply to hot surfaces. Proper respiratory protection is required when sanding or welding coated surfaces. Protect from direct sunlight.

SECTION 8 - PERSONAL PROTECTION

Clothing:

Chemical impervious gloves, boots, and apron or smock.

Eyes:

Chemical splash goggles. A face shield should be used if splashing is possible. Contact lenses should not be worn.

Respiration:

Use only with adequate ventilation. A NIOSH/MSHA approved organic vapor chemical cartridge respirator should be used if ventilation is inadequate. Observe OSHA regulations for respirator use (29 CFR 1910.134). Particulate filters should be added during spray operations.

Ventilation:

Provide adequate room ventilation to maintain vapor concentration below an acceptable exposure level. Provide local exhaust ventilation at points of vapor emission. As required to remove solvent vapors from lower levels or work areas or exposure to ignition sources. Use explosion-proof ventilation equipment.

Explosion Proofing:

Tools should be non-sparking. Exhaust fans should be explosion proof.

Other Personal Protection Data:

An eye wash and safety shower should be available.

SECTION 9 - PHYSICAL PROPERTIES

Color:	Brown		
Form/Appearance:	Liquid		
Odor:	Solvent		
Odor Intensity:	Moderate		
	Typical	Low/High	U.O.M.
Specific Gravity:	1.155		

105R35 SERIES 300 BROWN 1

NLI C25447

Page : 6

SECTION 9 - PHYSICAL PROPERTIES (cont)

	Typical	Low/High	U.O.M.		
pH:	NOT AVAILABLE				
	Typical	Low/High	Deg.	@	Pressure
Boiling Pt:		174 - 340	F	760	MM HG
Freezing Pt:	NOT AVAILABLE				
Decomp. Temp:	NOT AVAILABLE				
Solubility in Water Description:	Insoluble				
Evaporation Rate:	< 1	NONE		20	DEG. C
Vapor Pressure:	~ 25	MM HG	X	20	DEG. C XX
Vapor Density (Air = 1):	HEAVIER THAN AIR				
Evaporation Rate Std.:	BUTYL ACETATE				

SECTION 10 - STABILITY AND REACTIVITY

Stability Data:

Product is stable under normal conditions.

Incompatibility:

Oxidizing agents.

Strong bases.

Conditions/Hazards to Avoid:

Excessive heat.

Sparks, open flames, and all other ignition sources.

Hazardous Decomposition/Polymerization:

Oxides of carbon.

Smoke.

Acrid vapors and/or gases.

Oxides of nitrogen.

Hazardous polymerization will not occur.

Corrosive Properties:

Not Corrosive.

Oxidizer Properties:

Not an oxidizer.

Other Reactivity Data:

None known.

SECTION 11 - TOXICOLOGICAL INFORMATION

No applicable data for this section.

SECTION 12 - ECOLOGICAL INFORMATION

No applicable data for this section.

SECTION 13 - DISPOSAL CONSIDERATION

Waste Disposal:

The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Dispose of in accordance with federal, state and local regulations concerning health and pollution. Incineration is the recommended method of disposal. Do not incinerate closed containers. Harmful to aquatic life. Avoid the contamination of streams, lakes or ponds.

105R35 SERIES 300 BROWN 1
NLI C25447

Page : 7

SECTION 13 - DISPOSAL CONSIDERATION (cont)

Container Disposal:
Not applicable.

SECTION 14 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

SEE BELOW

DOT Technical Name:

SEE BELOW

DOT Primary Hazard Class:

SEE BELOW

DOT Secondary Hazard Class:

SEE BELOW

DOT Label Required:

SEE BELOW

DOT Placard Required:

SEE BELOW

DOT Poison Constituent:

SEE BELOW

BASF Commodity Codes:

UN/NA Code:

E/R Guide:

Bill of Lading Description:

PAINT, 3, UN1263, PG II.

SECTION 15 - REGULATORY INFORMATION

SARA - 313 Listed Chemicals:

CAS: 71-36-3 AMOUNT: 2.3 %

NAME: 1-BUTANOL

CAS: 78-93-3 AMOUNT: 7.8 %

NAME: METHYL ETHYL KETONE

State Regulatory Information: (By Component)

NJ/PA/MA RTK

CAS: 64-17-5

YES

NAME: ETHANOL

CAS: 67-64-1

YES

NAME: ACETONE

CAS: 71-36-3

YES

NAME: 1-BUTANOL

CAS: 78-93-3

YES

NAME: METHYL ETHYL KETONE

CAS: 1332-37-2

YES

NAME: IRON OXIDE

CAS: 1569-01-3

YES

NAME: n-PROPOXYPROPANOL

CAS: 25068-38-6

YES

NAME: PHENOL, 4,4'-(1-METHYLETH

CAS: 25085-75-0

YES

NAME: FORMALDEHYDE, POLYMER WIT

SECTION 16 - OTHER INFORMATION

105R35 SERIES 300 BROWN 1

NLI C25447

Page : 8

SECTION 16 - OTHER INFORMATION (cont)

Hazard Ratings:

BASF currently uses the National Paint & Coating Association (NPCA) rating system. The use of an asterisk (*) in the HMIS rating indicates the potential for chronic health effects.

	Health:	Fire:	Reactivity:	Special:
HMIS	2*	2	0	NA

"IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK".

END OF DATA SHEET

ATTACHMENT 3



Dear Drum User:

Current environmental laws and regulations govern the practices followed in the disposition of used, empty, steel or plastic drums. Under the Resource Recovery and Conservation Act and the Comprehensive Environmental Response, Compensation and Liability Act, empty drums must be carefully managed by both drum users and recyclers.

Our Company strongly endorses the **RESPONSIBLE CONTAINER MANAGEMENT (RCM)** program of the Reusable Industrial Packaging Association. A packet of brochures describing the program is available upon your request.

To ensure that all necessary measures are followed, we have prepared this *Drum Acceptance Policy*. We trust you will understand why we must follow these policies without exception. Please note that in some cases we **pay** for drums picked up; in others we must **charge**. Please feel free to call us if any pricing information may be needed.

You should also note that there may be steps you can take to maximize your revenue (or minimize your costs). The most important is to specify, for products you receive, drums manufactured to at least the minimum thicknesses allowed by the U.S. Department of Transportation for reuse with regulated materials, and marked according to DOT regulations for those thicknesses. For drums made from a single thickness of steel, this means a nominal 1.0 mm thickness marking; for "20/18" style drums, it is a 1.2 — 0.9 — 1.2 mm marking.

Note that disposition of junk drums is costly — caution your personnel to handle drums carefully to minimize damage. (Junk drums must still be processed and cleaned before they can be recycled as scrap steel or plastic.)

When changes occur in the regulations, we will make every effort to keep you informed. Thank you for choosing IFCO Industrial Container Systems—the environmentally responsible container service company.

Very truly yours,

7/00 Edition

IFCO Industrial Container Systems

Corporate Headquarters, 2300 W. 13th Street, Chicago, IL 60608 Phone: (800) 510-0152

Western Region
(800) 273-3786

Central Region
(800) 510-0152

Eastern Region
(888) 886-5500

Drum Acceptance Policy

The following presents the policies covering the pickup, transportation, purchase of or charges for, used empty steel and plastic drums accepted by us.

These policies reflect the current status of applicable regulations published by the U.S. Department of Transportation (DOT), the Environmental Protection Agency (EPA), and corresponding state and local agencies.

Drums Must Be Empty

We will accept no drums that are not empty. We understand that some minor residue of the drum's prior contents will remain after normal emptying. In all states, except California, how much residue is acceptable is decided by EPA's definition of an "empty" container (40 CFR 261.7). This regulation says: first, that the drum is as empty as it can be gotten using "... the practices commonly employed to remove materials from that type of container, e.g., pouring, pumping ..."; but second, that in *no event* may there be more than one inch (or 3 percent by weight) of residue left in the drum.

Note that different types of products require different degrees of emptying (solvents vs. paints, for example). Note also that the "one-inch" rule applies only as an outside limit; **IT DOES NOT AUTHORIZE ALL DRUMS TO HAVE ONE INCH OF RESIDUE.** The first part of the regulation must be met: the drums must be as empty as they can be gotten using normal emptying methods. With all but a very few products (like tars, etc.), this will result in far less than one inch of residue. As a practical matter, the rule means that if an opened drum is turned over, only a few drops of product will come out. The drum should be "drip dry."

The State of California has implemented a more restrictive definition of an "empty" container than the EPA rule. For details of the California requirements, please call our Western region headquarters at (800) 273-3786, ext. 100.

A full copy of the EPA empty drum regulation may be found in the RCM pamphlet "DISPOSITION." EPA's discussion of the correct interpretation of this rule is published in the August 18, 1982 Federal Register (Vol. 47; p. 36093). Please note that arrangements to pick up any drum discovered at our plant not meeting these requirements must be made by you upon our notification.

Drums Must Not Have Contained "Acutely Hazardous Chemicals"

The EPA has published—at 40 CFR 261.33(e)—a list of chemicals whose residues are considered to be "acutely hazardous." A copy of the list is available upon request.

We will pick up drums containing any of the products on EPA's 261.33(e) list only by special arrangements. Drums must be "triple rinsed" by the emptier in accordance with 40 CFR 261.7(b)(3) and a special certification to that fact completed. Contact our office for information.

Drums Must be Properly Prepared for Transportation

The DOT requires that an uncleaned empty drum must be shipped:

- a) with "all openings including removable heads and filling and vent holes tightly closed ..."; and
- b) with the original label (describing the drum residue) legibly in place (49 CFR 173.29(a)).

Our drivers carry extra drum plugs on their trucks

and will replace plugs, if necessary, to enable pickup. There may be a charge for replacement closures.

The label must accurately describe the drum residue. If any different materials have been placed in the drum, a new label must be prepared or this information supplied to us in some other reliable manner.

No hazardous material may remain on the outside of the drum (49 CFR 173.24a(b)(5)). If such material cannot be removed, the drum must be overpacked.

There is no DOT placarding requirement for vehicles transporting empty drums (49 CFR 173.29(a)(3)(i)). Also, empty drums picked up by our trucks (or delivered by your trucks or contract carriers to our plant) are exempt from the DOT shipping paper requirement, because such drums are "collected and transported for... reconditioning and reuse" (49 CFR 173.29(a)(3)(ii)).

Certification of These Requirements by Shipper

We can pick up drums only after the shipper (on every load) certifies compliance with the above requirements. The importance of this certification is described in the RCM pamphlet: "EMPTY DRUM CERTIFICATION." This certification appears on our drum Receiving Tickets (a copy of which - signed also by our driver - is left with you after pickup).

MSDS Availability

In order to protect our employees and equipment, we must be aware of the hazards of any residual materials in these drums. All of our plants subscribe to an electronic MSDS subscription service, and normally we obtain any needed material safety data in this manner. Accordingly, it is not necessary to send a MSDS

with shipments of your used, empty drums, unless we specifically request one.

"RQ" Marking Presumption

We presume that all "RQ" (reportable quantity) markings on empty drums refer to the filled drum when it was originally shipped full of product. Accordingly, we also presume "RQ" markings do not refer to the empty drum and its residues. However, because some materials have an "RQ" quantity of *ONE POUND*, drum emptiers are cautioned:

a) to be sure all drums are fully, legally emptied:

b) to ensure—if an "RQ" marking is applicable to the residue in a legally emptied drum—that the proper DOT shipping papers are completed and sent with the shipment. (Note that this requirement overrides the usual shipping paper exemption for empty drums consigned for reconditioning described above.)

Inspection

Drums are inspected at our receiving yard. Drums vary considerably in their reuse value due to many factors. Some major ones are:

- (1) thickness of construction material;
- (2) markings;
- (3) UN specification status;
- (4) nature of residues of previous contents, difficulty of removal, and steps necessary to handle safely and dispose of these residues;
- (5) degree of damage and overall condition.

Because of one or more of these factors, some drums are "non-economic" and we must charge for their proper disposition. Due to strict environmental regulations, these drums must first be cleaned before the drum carcass may be sent to a steel or plastic scrap recycler. For this reason, charges may be made for certain low value drums and for drum disposal.

Loading

Our drivers will stack and load drums in their trailers. Our offer to pick up drums is based on suppliers placing the drums "on the tailgate." In cases where a trailer is "dropped" at a supplier's plant, all loading will be done by the supplier's personnel.

Direct Agreement

Our agreement to pick up drums is based on direct agreement with the company or party who has emptied the drums. We cannot accept drums from third parties because there is no practical way they can guarantee compliance with all provisions of our *Drum Acceptance Policy*. Accordingly, should you elect to ship the drums by means of common carrier or by your truck, freight prepaid, all documents must be in the name of the drum emptier.

Plant Review

Our Company not only welcomes but encourages a plant review inspection by drum emptiers sending us their empty drums. The reality of today's strict environmental regulation demands that all producers of secondary materials ensure that these products are handled and disposed of in compliance with all current laws and rules. Please contact us to schedule a plant inspection; we cannot accommodate "drop-in" visits. You may want to review the RCM pamphlet "**ENVIRONMENTAL COMPLIANCE**—Suggested plant review guide for drum emptiers."



Drum Acceptance Policy



RCM POLICY

1 - UNACCEPTABLE CONTAINERS

**DEFINITION: ANY CONTAINER THAT DOES NOT COMPLY
WITH ANY OF THE FOLLOWING REGULATIONS:**

- 49 CFR 261.7 (EMPTY DEFINITION)
- 40 CFR 261.33 (e) (ACUTELY HAZARDOUS)
- 49 CFR 173.2 (a) (CLOSURES & LABELING)

A. PROPER HANDLING OF UNACCEPTABLE CONTAINERS

1. Containers that arrive by any means other than Acme are not be unloaded.
2. Containers will be documented on RCM report upon receipt.
3. RCM reports will be turned in daily, even if zero entry.
4. All containers will have "Unacceptable Container" labels attached. Label must include date, company name and location and trailer number.
5. Containers must not be unloaded at any receiving areas.

B. DISPOSITION OF UNACCEPTABLE CONTAINERS

1. After completion of above protocol, containers are to be placed in specified areas at appropriate shipping docks where they will be returned to the customer.
2. Drivers must be informed as to containers that are being returned and appropriate receiving personnel must be notified upon arrival at customer. Report any problems immediately.
3. Any recidivism of unacceptable containers must be brought to the attention of the Sales Department.

2 - RCM CONTAINERS

DEFINITION: CONTAINERS THAT ARE NOT SUITABLE FOR RECONDITIONING PURPOSES WILL BE ACCEPTED FOR CLEANING AND CRUSHING, SHREDDING OR REGRIND.

A. IDENTIFICATION AND DISPOSITION

- 1. RCM containers are to be unloaded in specified receiving areas.**
- 2. RCM reports are to be used and turned in on a daily basis.**
- 3. Swift and accurate classification and counts are essential to proper invoicing for handling charge.**

B. GENERAL COMMENTS

- 1. Any questions, ask pertinent department head.**
- 2. Any Acme employee that chooses not to follow the prescribed procedures will be subject to suspension or termination.**



CONTAINER ACCEPTANCE POLICY

PalEx will accept for reconditioning or recycling most common types of industrial containers such as:

- Steel Drums — open and closed head
- Plastic Drums — open and closed head
- I.B.C.'s — stainless steel, poly and composite
- Kits — steel and plastic
- Pails — steel and plastic
- Misc. composite containers

It is the primary goal of PalEx to reuse every container possible. If that goal cannot be achieved, we will assist you with responsible disposition. It is the strict policy of PalEx that all containers accepted will have all identifying marks removed and be either reconditioned or recycled. In order for containers to be accepted by PalEx, they must comply with the following stipulations:

1 — CONTAINERS MUST BE EMPTY

We accept only containers that are EPA empty as defined in regulation 40 CFR 261.7. The containers must be emptied using "... the practice commonly employed to remove materials from that type of container, e.g. pouring, pumping or aspirating." The containers must have "no more than 2.5 centimeters (one inch) of residue ... or no more than 3% by weight" of the total capacity. The regulation must not be interpreted to authorize containers to retain one inch of residue and normal emptying methods should result in a "drip dry" container when inverted. A container that is greater than 110 gallons must have "no more than 0.3 percent of the total capacity of the container" remaining.

2 — NO "ACUTELY HAZARDOUS CHEMICALS"

We will not accept any packaging that previously contained "acutely hazardous chemicals". These chemicals, also known as the "P" list, are published at 40 CFR 261.33(e). A copy of the list can be provided for reference purposes.

3 — CONTAINERS MUST BE PROPERLY PREPARED

We accept only containers that are prepared in accordance with 49 CFR 173.20. The containers must be shipped with "all openings including removable heads and filling and vent holes tightly closed..." and with original labeling legibly in place.

In addition to the above stipulations, IBC containers must be prepared in accordance with 49 CFR 172.514. The containers must be shipped with affixed "placards specified for the material" or "may be labeled instead of placarded in accordance with subpart E" depending on prior contents.

4 — EMPTY CONTAINER CERTIFICATION REQUIREMENT

We accept only containers that are documented EPA empty. The documentation will take the form of an Acme Empty Container Certification. A copy of this form can be provided for reference purposes.

5 — CONTAINERS MUST BE INSPECTED

All containers are inspected at our receiving facilities. Containers vary considerably in their reuse value due to many factors such as:

- a) minimum thickness of container
- b) UN specification status
- c) nature of previous contents
- d) degree of damage/overall condition
- e) resale value of container type.

These variables will determine the processes necessary to ensure proper container management that will minimize your environmental liability.

In addition to the above stated requirements, there do exist some containers that will not be accepted unless a prior specific arrangement is made between the customer and the receiving facility.

As always, aluminum containers or any packaging for aluminum paint, paste or powder are unacceptable.

(a)(1) Any hazardous waste remaining in either (i) an empty container or (ii) an inner liner removed from an empty container, as defined in paragraph (b) of this section, is not subject to regulation under parts 261 through 265, or part 268, 270 or 124 of this chapter or to the notification requirements of section 3010 of RCRA.

(2) Any hazardous waste in either (i) a container that is not empty or (ii) an inner liner removed from a container that is not empty, as defined in paragraph (b) of this section, is subject to regulation under parts 261 through 265, and parts 268, 270 and 124 of this chapter and to the notification requirements of section 3010 of RCRA.

(b)(1) A container or an inner liner removed from a container that has held any hazardous waste, except a waste that is a compressed gas or that is identified as an acute hazardous waste listed in §§261.31, 261.32, or 261.33(e) of this chapter is empty if:

(i) All wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container, e.g., pouring, pumping, and aspirating, and

(ii) No more than 2.5 centimeters (one inch) of residue remain on the bottom of the container or inner liner, or

(iii)(A) No more than 3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is less than or equal to 110 gallons in size, or

(B) No more than 0.3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is greater than 110 gallons in size.

(2) A container that has held a hazardous waste that is a compressed gas is empty when the pressure in the container approaches atmospheric.

(3) A container or an inner liner removed from a container that has held an acute hazardous waste listed in §§261.31, 261.32, or 261.33(e) is empty if:

(i) The container or inner liner has been triple rinsed using a solvent capable of removing the commercial chemical product or manufacturing chemical intermediate;

(ii) The container or inner liner has been cleaned by another method that has been shown in the scientific literature, or by tests conducted by the generator, to achieve equivalent removal; or

(iii) In the case of a container, the inner liner that prevented contact of the commercial chemical product or manufacturing chemical intermediate with the container, has been removed.

EMPTY DRUM CERTIFICATION

I hereby certify that these drums are "empty" as that term is defined in the national Environmental Protection Agency regulations, 40 CFR 261.7*, and that they have been properly prepared for transportation under the regulations of the U.S. Department of Transportation, 49 CFR 173.29.**

Date: _____

COMPANY NAME _____

AUTHORIZED SIGNATURE _____

*With regard to most regulated residues, EPA's 40 CFR 261.7 says: "A container... is empty if:

(i) All wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container, e.g., pouring, pumping, and aspirating, and

(ii) No more than 2.5 centimeters (one inch) of residue remain on the bottom of the container..."

EPA has explained this rule, saying that "one inch of waste material is an overriding constraint and may remain in an empty container only if it cannot be removed by normal means. The rationale for this provision is that there are certain tars and other extremely viscous materials that will remain in the container even after the container is emptied by normal means."

For residues of products specifically listed by name in 40 CFR 261.33(c), EPA says the container is empty only "if the container... has been triple-rinsed using a solvent capable of removing" the product, or has been cleaned by another method shown to achieve equivalent removal.

**DOT's 49 CFR 173.29 says that all openings on the empty container must be closed, and that all markings and labels must be in place as if the drums were full of its original contents. A DOT shipping paper is not required for transportation of a drum for reconditioning via contract or private motor carrier. DOT placarding is not required for vehicles carrying empty containers.

ATTACHMENT 4

Writer's direct phone

(312) 269-8903

Writer's e-mail

eboyd@seyfarth.com

April 19, 2002

VIA FACSIMILE (312) 353-4342 AND U.S. MAIL

Lorna M. Jereza, P.E., Chief
Compliance Section I
Enforcement and Compliance Assurance Branch
United States Environmental Protection Agency
Region V (DE-9J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

**Re: March 6, 2002 Information Request to Acme Barrel Company
U.S. EPA I.D. No. ILD 025 022 997**

Dear Ms. Jereza:

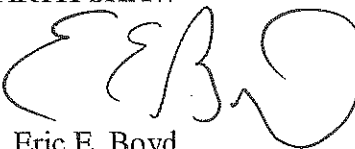
The purpose of this letter is to confirm that you have agreed to an extension of the date by which Acme Barrel Company must respond to the above-referenced information request. You agreed to a 30-day extension based on the fact that the facility is and has been working with the City of Chicago, U.S. EPA Region V Air Division, and the IEPA to resolve other issues. The facility now has until May 22, 2002 to file a response to the Request for Information. We understand that the facility will not be given any further extensions.

Thank you again for your assistance. At your convenience, please sign and return a copy of this letter to me so we can retain a copy for our files. If you have any questions, please do not hesitate to call.

Very truly yours,

SEYFARTH SHAW

By



Eric E. Boyd

EEB:jab

Enclosure

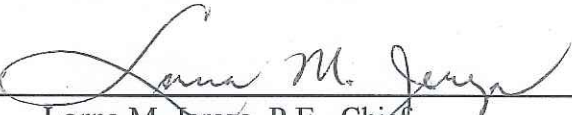
cc: Kay Rykowski

Lorna M. Jereza, P.E.

April 19, 2002

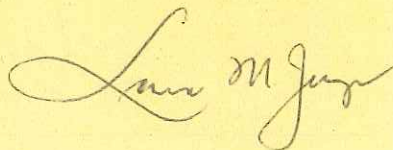
Page 2

U.S. Environmental Protection Agency

By: 
Lorna M. Jereza, P.E., Chief
Compliance Section 1
Enforcement and Compliance Assurance Branch

4/19/02
Date

This page was
faxed to Mr. Boyd
on 4/19/02.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

MAR 06 2002

DE-9J

CERTIFIED MAIL 7001 0320 0006 0201 6385
RETURN RECEIPT REQUESTED

IN THE MATTER OF:

Acme Barrel Company
2300 West 13th Street
Chicago, Illinois 60608

U.S. EPA I.D. NO.: ILD 025 022 997

ATTENTION: Calvin Lee
President

REQUEST FOR INFORMATION

By this letter, the United States Environmental Protection Agency (U.S. EPA) requests information under Section 3007 of the Resource Conservation and Recovery Act (RCRA), as amended, 42 U.S.C. § 6927. Section 3007 authorizes the Administrator of U.S. EPA to require you to submit certain information.

This request requires Acme Barrel Company (Acme or the facility) to submit certain information relating to hazardous waste generated, stored, or treated at its facility located at 2300 West 13th Street, Chicago, Illinois. You may use outside consultants or other firms to perform the requested materials analysis. We are requiring this information to determine the facility's compliance status with the standards for generators of hazardous waste, as set forth in 35 IAC Part 720-722[40 CFR Part 260-262]. Attachment 1 specifies the information you must submit. You must submit this information within 45 calendar days of receiving this request to the United States Environmental Protection Agency, Attention: Graciela Scambiaterra, 77 West Jackson Boulevard, DE-9J, Chicago, Illinois 60604.

You may, under 40 CFR Part 2 Subpart B, assert a business confidentiality claim covering all or part of the information in the

manner described in 40 CFR 2.203(b). We will disclose the information covered by a business confidentiality claim only to the extent and by means of the procedures at 40 CFR Part 2, B. You must make any request for confidentiality when you submit the information since any information not so identified may be made available to the public without further notice.

Acme must submit all requested information under an authorized signature certifying that the information is true and complete to the best of the signatory's knowledge and belief. Should the signatory find, at any time after submitting the requested information, that any portion of the submitted information is false, misleading or incomplete, the signatory should notify us. Knowingly providing false information, in response to this request, may be actionable under 18 U.S.C. §§ 1001 and 1341. We may use the requested information in an administrative, civil or criminal action.

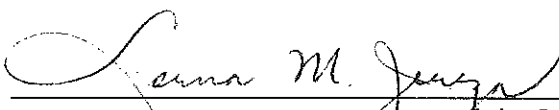
This request is not subject to the Paperwork Reduction Act, U.S.C. § 3501 et seq., because it seeks collection of information from specific individuals or entities as part of an administrative action or investigation.

Failure to comply fully with this request for information may subject Acme to an enforcement action under Section 3008 of RCRA, 42 U.S.C. § 6928.

You should direct questions about this request for information to Graciela Scambiaterra at (312) 353-5103.

3/6/2002

Date



Lorna M. Jereza, P.E., Chief
Compliance Section 1

Enforcement and Compliance Assurance Branch

Attachment

cc: Todd Marvel, Illinois EPA (w/attachment)

INFORMATION REQUEST - ATTACHMENT I

Instructions: This request for information pertains to the Acme Barrel Company facility located at and about 2300 West 13th Street, Chicago, Illinois 60608. You must respond separately to each of the questions or requests in this attachment. Precede each answer with the number of the Request for Information to which it corresponds. For each document produced in response to this Request for Information, indicate on the document, or in some other reasonable manner, the number of the question to which it responds.

Requests

1. Identify all persons consulted in preparing the answers to this Request for Information. Provide the full name and title for each person identified.
2. Provide a Toxicity Characteristic Leaching Procedure (TCLP) analytical report on the solvent-based paint booth filters generated at the Acme facility at 2300 West 13th Street, Chicago, Illinois, according to the following instructions:
 - a) Run an analysis for metals as well as volatiles, in accordance with the procedures set forth at 40 C.F.R. (Code of Federal Regulations) § 260.11 and the most current edition of the EPA Publication SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods;"
 - b) Include any chain of custody documentation, laboratory analysis summaries, and data verification reports.
3. Provide a detailed explanation of the processes involved in the solvent-based paint booths, and also address all of the following:
 - a) Provide a list of all the chemical products used at the paint booths, including products used to clean the paint booth equipment;
 - b) Provide a Material Safety Data Sheet (MSDS) for each of the chemical products used at the paint booths;
 - c) Provide a description as to what point the chemicals are added to the process and when they are removed, and their disposition;
 - d) Provide a description of the process involved with cleaning the paint booth equipment, including the spray guns, and the disposition of the generated spent cleaning solution.
4. Provide copies of documents Acme provides to its customers to inform them that only containers that are RCRA empty (in accordance with 35 Illinois Administrative Code(IAC) 721.107 [40 CFR 261.7]) will be accepted by the Acme facility.
5. Provide all shipping documents within the last three years for containers returned by Acme to facilities that were not RCRA empty,

provide a written procedure for returning containers that are not RCRA empty, and address the following:

- a) Are the drums returned with special labeling?
- b) How does Acme ensure that the non-empty containers are returned to the right customer?
- c) When non-empty containers are returned to the customer, describe what action Acme takes concerning future dealings with the customer regarding ensuring that barrels are empty.

6. Provide the following certification by a responsible corporate officer:

I certify under the penalty of law that I have examined and am familiar with the information submitted in responding to this information request for production of documents. Based on my review of all relevant documents and inquiring of those individuals immediately responsible for providing all relevant information and documents, I believe that the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

bcc: Author's Copy (Graciela Scambiatterra, w/attachment)
 Section Copy (w/attachment)
 Branch Copy (w/attachment)
 A. ~~Daugavietis~~, ORC

ENFORCEMENT AND COMPLIANCE ASSURANCE BRANCH

SECRETARY	SECRETARY	SECRETARY	SECRETARY
AUTHOR/ TYPIST	COMPLIANCE SECTION 1 SECTION CHIEF	COMPLIANCE SECTION 2 SECTION CHIEF	CA SECTION SECTION CHIEF
<i>LHS 3/6/02</i>	<i>LMJ 3/6/02</i>		

*Approval of ORC
 per attached Email*

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

5835 7020 9000 0201 6385

OFFICIAL USE

Postage	\$ 37	DE-95 Postmark Here
Certified Fee	2.10	
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)	1.50	
Total Postage & Fees	\$ 4.17	

Sent To Calvin Lee, President ACME
 Street, Apt. No., or PO Box No. 2300 West 13th Street
 City, State, ZIP+4 Chicago, IL 60608

PS Form 3800, January 2001 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Received by (Please Print Clearly) _____ B. Date of Delivery <u>3-11-02</u></p> <p>C. Signature <u>A. Meyer</u> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p><u>Calvin Lee, President</u> <u>Acme Barrel Company</u> <u>2300 West 13th Street</u> <u>Chicago, IL 60608</u></p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number (Copy from service label)</p> <p><u>7001 0320 0006 0201 6385</u></p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>

Certified Mail Provides:

- A mailing receipt
- A unique identifier for your mailpiece
- A signature upon delivery
- A record of delivery kept by the Postal Service for two years

Important Reminders:

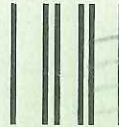
- Certified Mail may ONLY be combined with First-Class Mail or Priority Mail.
- Certified Mail is not available for any class of international mail.
- NO INSURANCE COVERAGE IS PROVIDED with Certified Mail. For valuables, please consider Insured or Registered Mail.
- For an additional fee, a *Return Receipt* may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement "Restricted Delivery".
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, January 2001 (Reverse)

102595-01-M-1049

UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

U.S. EPA Region 5
ECAB/CSI (DE-9J)
77 W. Jackson Blvd.
Chicago, Illinois 60604
Attn: G. Scambiaterra

**RCRA Compliance Evaluation Inspection Report
U.S. Environmental Protection Agency Region 5**

Purpose: RCRA Compliance Evaluation Inspection

Facility: Acme Barrel Company
2300 West 13th Street
Chicago, IL 60608

Facility ID Number: ILD 025 022 997

Date of Inspection: January 24, 2002

SIC Code: 7699

U.S. EPA Inspector: Graciela R. Scambiatterra
Environmental Scientist
(312) 353-5103

Facility Reps: Kay Rykowski
Environmental Director
(312) 829-3838

Sam Fiegura
Quality Manager

Calvin Lee
President

Robert Conway
Regional Manager

Report Prepared by: Graciela R. Scambiatterra

Date: _____

Total Pages:

At this time, the representatives gave Mr. Valentino and I a general overview of their processes:

The facility does not generate and/or manifest any hazardous waste. When metal drums (mainly 55-gallon and some 30-gallon) are received by their clients, they are opened and put on a conveyor that runs through all the processes in the facility. The drums are inverted 10-15 feet away from the furnace. These drums are oxidized (furnace), shot-blasted, exteriorly and interiorly painted and baked-on with an epoxy. The facility has seven paint booths, some for exterior and some for interior drum painting. Not all the drums go through each of the booths, it depends on the drum.

The clients are given an 'empty-drum certification' for them to certify that they will only ship to Acme Barrel RCRA-empty drums. Employees are given instructions to segregate non RCRA-empty drums to be sent back to the clients. If some are found, the procedure is to label the drums with the client's information, and to ensure that they do not get placed on the conveyor belt line.

According to the representatives, Acme Barrel does not accept drums with P-listed wastes. When Mr. Valentino and I asked how they ensured this, they responded by saying that a thorough review of each customer is completed and after a while, they rely on their relationship with the customer. No other information about the 'thorough' review was given.

All the drums go through the furnace. However, if there are serious defects in the drum, it is taken off the conveyor line after going through the furnace and would not go through the remaining processes. Some of these defective drums get sold as garbage cans, while others are crushed and sold for scrap metal.

FACILITY INSPECTION

Drum Checkpoint #1

Here, the facility personnel unload the drums that have arrived on trucks from various clients.

Furnace Line

In this area, drums were coming out of the furnace line. Here, there was a trench with quenching liquid from the furnace process. This trench is routed to the water treatment on-site.

- 1) Copy of policy on receiving drums and appropriate actions taken when a drum is received that is not RCRA-empty, and
- 2) Copy of paint booth filter analysis from their headquarter office.

At this time, there are no apparent RCRA violations.

1/9/2002

Acme Barrel, Chicago, IL

In December 28, 2001, Mike Valentino, inspector with the Waste Pesticides and Toxics Division, Enforcement and Compliance Assurance Branch, spoke by phone with Linda Hamsing, inspector with the Air and Radiation Division, Air Enforcement and Compliance Assurance Branch, about Acme Barrel Company, 2300 W. 13th Street, Chicago, IL. Linda Hamsing had conducted a compliance inspection in March 2001. She expressed some concern over general housekeeping at the facility and the possibility that some drums processed there may not meet the definition of "RCRA empty," and recommended that a RCRA inspection be conducted to assess if there are any RCRA compliance issues.

Following that phone call, Mike Valentino did an internet search on the OTIS webpage, and discovered that the facility had not undergone a RCRA inspection since March 1997, by the Illinois EPA (IEPA).

On December 31, 2001, Mike Valentino recommended to Lorna Jereza, Chief, Compliance Section 1, ECAB, that the facility be inspected. On January 9, 2002, during a quarterly conference call with the IEPA, Lorna Jereza and Howard Caine discussed Acme Barrel Company with the State, and pursuant to State-Federal partnership agreements, offered IEPA the opportunity to take the lead. The State decided not to conduct an inspection, and U.S. EPA informed them that we would take the lead.

Graciela Scambiaterra, Waste Pesticides and Toxics Division, Enforcement and Compliance Assurance Branch, Compliance Section 1, notified IEPA's Cliff Gould on January 10, 2002, that the inspection would take place on January 31, 2002, and offered IEPA the opportunity to accompany U.S. EPA. On January 16, 2002, Graciela notified Cliff Gould that the inspection date was going to be moved up to January 24, 2002. IEPA did not respond prior to the inspection date.

Acting on a recommendation by Linda Hamsing, Graciela coordinated the inspection date with the City of Chicago Department of the Environment. Graciela met with City inspectors and conducted a file search at the Department of the Environment's offices prior to the inspection.

On January 24, 2002, Graciela Scambiaterra and Mike Valentino, WPTD, ECAB, Compliance Section 1, inspected the Acme Barrel Co. (IFCO) facility on Chicago's Near West Side. We were met at the facility and accompanied during the inspection by two inspectors from the City's Department of the Environment.

The facility refurbishes used containers (mostly metal 55-gal drums) for reuse. Drums which cannot be salvaged are used as scrap in steel mills. Acme operates one 8-hour shift per day, and processes 3500-4000 drums during per day. Acme employs 148 at this location.

Acme introduces the drums into a furnace, which operates at roughly 1000F, to drive off residual materials. Acme then shotblasts the drums to prepare them to receive interior and exterior coatings. Acme removes any dents or deformities, if possible, before applying the inside and outside coatings. Acme pressure-tests the drums with respect to applicable Department of Transportation regulations.

After arriving at the facility, U.S. EPA inspectors showed their enforcement credentials, and then met with Acme personnel and City of Chicago inspectors in a conference room. U.S. EPA explained to Acme the purpose of the inspection. A general discussion of the facility, which lasted about 30 minutes, was followed by a facility walk-through, in which U.S. EPA took photographs as they toured the facility.

Toward the end of the inspection, U.S. EPA visually observed approximately 35 drums which were either unloaded directly from a truck or which had come from the tight-head plant (in which the tops of the drums were sheared off prior to them being introduced into the furnace). Of these 35 drums, U.S. EPA inspectors asked Acme workers to set seven to the side. U.S. EPA measured the contents of the liquids in the drums, using a stainless steel yardstick and cleaning the yardstick after taking measurements in each drum. Of the seven, one drum was found to contain 1.5 inches of an unknown liquid material; one other drum was found to contain 1 inch of an unknown liquid material.

A closing conference was held following the visual inspection in which U.S. EPA presented Acme with its findings from the visual inspection of the drums and the facility tour. U.S. EPA asked a number of questions relative to Acme's drum reject policy, safeguards Acme employs to ensure that it processes only "RCRA empty" drums, analytical results on furnace ash and filters from the spray booths, and description of the types of coatings used in the process.

U.S. EPA had asked Acme for documentation at the concluding interview. This included analytical results for paint booth filters at another similar operation and material safety and data sheets on the liquids used to flush out the interior coating line spray guns. As of February 21, 2002, Acme had not provided this information to U.S. EPA.

U.S. EPA will follow-up with an Information Request under RCRA Section 3007, which will ask for the above documentation and other information relative to Acme's operations.

3/1/01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604

DATE:

SUBJECT: Plant Inspection- IFCO ICS- Chicago, Inc., Chicago,
Illinois

FROM: Sara Dauk, Environmental Scientist
Air Enforcement and Compliance Assurance Section (IL/IN)

Linda Hamsing, Environmental Engineer
Air Enforcement and Compliance Assurance Section (IL/IN)

THRU: Brent Marable, Chief
Air Enforcement and Compliance Assurance Section (IL/IN)

TO: File

Date of Inspection: March 1, 2001

Attendees: Sara Dauk, U.S. EPA
Linda Hamsing, U.S. EPA

Samuel G. Fiegura, Regulatory & Quality
Manager, IFCO ICS- Chicago, Inc. (IFCO)
Duane Clark, Division Safety Manager, IFCO
Gayle Hansen-Dalicandro, Administrative
Coordinator, IFCO
Mary Jo Williams, Environmental Consultant,
Mary Jo Williams & Associates
Steve Wilcox, Maintenance, IFCO

Purpose of Inspection: The purpose of the inspection was to conduct an air inspection at the plant based on a citizen's complaint. The City of Chicago, Department of Environment requested that U.S. EPA conduct this inspection. The City did not accompany U.S. EPA on the inspection.

Company Description and Background

Plant Location: 2300 West 13th Street
Chicago, Illinois 60608

Phone Number: (312) 829-3838

Primary Contact: Samuel G. Fiegura, Regulatory &
Quality Manager

Plant Description: The facility reconditions and recycles industrial shipping containers. Reconditioning means cleaning, rebuilding, repairing, and/or reshaping as well as leak testing and inspecting a container to return the container to serviceable condition for reuse. At IFCO, recycling means that at some point in the reconditioning process, the container is determined to be no longer suitable for reuse and the steel is sent to the steel mill to be recast.

On-site Observations

Opening Conference

Ms. Hamsing and I arrived on-site at 8:15 AM and immediately noticed a profuse odor and smokey cloud crossing the property line coming from the yard on the Oakley Street side.

We entered the facility and held the opening discussion in a conference room. Ms. Hamsing presented her credentials to Mr. Fiegura and explained the purpose of the inspection. She also gave Mr. Fiegura a Fact Sheet explaining the Small Business Regulatory Fairness Enforcement Act (SBREFA). We also told the facility to tell us if it wants any information provided to be handled as Confidential Business Information (CBI).

During the inspection, Mr. Fiegura was the lead participant for IFCO. Duane Clark and Steve Wilcox participated at various times during the inspection. Gayle Hansen-Dalicandro and Mary Jo Williams arrived at the facility about mid-morning and participated in the inspection from that time on.

Mr. Fiegura explained that the facility was once known as ACME Barrel, but was acquired by Palex in 1998, and then was bought by IFCO, a German company, in 2000. Mr. Clark said that IFCO is publicly traded, and that the company mainly does container refurbishing. There are 200 to 300 customers at this facility. There are some customers who just sell drums to IFCO, and there are customers who just buy. The facility employs about 200 people, including sales people. The facility typically operates from 6:00

AM to 3:00 PM. The facility area is is 2000 sq. ft. under roof, and is comprised of three buildings. Mr. Fiegura mentioned that there is another small IFCO plant on 81st Street with roughly 18 employees.

Fiegura told us that the facility plans to close by the end of the year. They need a more efficient plant and want room to expand. The facility has been in the same location for 67 years. Mr. Fiegura said that Illinois EPA has issued the construction permit but the facility has not started construction because the company isn't sure about the site location. Mr. Fiegura said that the new facility will emit under 25 tons per year of VOCs

Facility Operations

Mr. Fiegura explained that there are three main emission sources: a lining department, a tight-head plant, and open-head plant. The open-head plant refurbishes and paints drums that have removable lids with clamps. The tight-head plant refurbishes and paints drums where the lid cannot be separated (like a Coke can). The lining department coats the inside of the open head drums.

According to Mr. Fiegura, about 99% of the drums that IFCO deals with are 55 gallon drums, and the other 1% are 30 gallon drums. Open-head drums are burned in the facility's furnace. Tight-head drums are not burned but cleaned by going through a chemical wash. In the tight-head plant, if a drum cannot be cleaned, the facility worker will cut the head off and make it an open-head drum. The drums contain ink, paint, and resins, but no food or varnishes. IFCO cleans about 3000 to 4000 open-head drums and 2000 tight-head drums per day. There is about a 10%-20% scrap factor. Sometimes the facility will shut down early in a day if there is a cushion built up. Mr. Fiegura said that the facility can burn approximately 10 drums per minute, and that's why the plant does not run all day. The used barrels come in on either IFCO's own trucks or the trucks of outside customers which have been scheduled for delivery. The trucks then return the refurbished trucks to the customer plant site. Mr. Fiegura said that the facility does not keep barrels on the ground because there is no storage area for dirty drums; the barrels are kept in the trailers until they are ready to be loaded onto the conveyor. The facility can feed drums constantly because there is a storage area after burning and before interior coating and then another storage area before the outside

coating area.

Mr. Fiegura said that each barrel needs to be "RCRA empty" which means that there is no more than 1 inch of liquid in the bottom of the drum. He also said the facility will not take substances that are on the "P" list, which are too hazardous, unless the drums are triple rinsed. Mr. Fiegura said that the facility doesn't take such barrels however, because IFCO doesn't trust the people bringing them in to triple rinse. According to Mr. Fiegura, there has to be a label on the drum listing the contents, and IFCO won't accept blackened out labels. Mr. Fiegura said that the facility will only accept drums with a cover and a ring. Mr. Fiegura said that the particular IFCO employee handling the drum knows if the drum is RCRA empty or not by how heavy it is. Before the drum is conveyed into the furnace, the worker will take the cover off, and if the drum doesn't look empty, the worker will send it back. According to Mr. Fiegura, every drum is visually checked.

According to Mr. Fiegura, the furnace contains a primary burner, a secondary burner, and an afterburner. The furnace is from 1968 or 1969. Mr. Wilcox reminded us that the afterburner is at least from 1968 or 1969. The facility does not have a permanent total enclosure on the furnace line. IFCO said that it was too difficult to retrofit the line with a permanent total enclosure and someone from U.S. EPA agreed. IFCO could not remember the name of the U.S. EPA employee.

The afterburner sits on top of the furnace and, according to the facility, stays at the necessary temperature of 1600 degrees Fahrenheit. Ms. Hamsing inquired about the fact that the facility's Title 5 permit lists three furnaces. Mr. Fiegura explained to us that there are actually two drum cleaning furnaces in the same unit, but one of them isn't used. The third furnace is used for the lids which enter the furnace a separate way from the drums.

Mr. Fiegura stated that there is a control room that shows the temperatures of the primary, secondary, and afterburner. Temperature is recorded onto several disks, and a graph can be printed showing a weeks worth of data at a time.

Mr Wilcox said that the facility usually charges up the burner at 5:30 AM and starts production at about 6:00 AM.

The furnace takes about fifteen minutes to warm up. He said that sometimes the furnace will drop below the necessary temperature because of jam-ups, so the facility shuts down for a while. According to Mr. Wilcox, this happens quite regularly and there is no way to tell if the afterburner temperature drops below 1600 degrees without going into the control room to look at the gauges.

Mr. Wilcox said that several changes have been made to the furnace in the past years, such as putting excess oxygen in the afterburner, and installing an ultraviolet scanner. Mr. Wilcox said that changes were made to the West-Oxidizer. IFCO considered these new things to be replacements so they didn't apply for a permit. The cost of the rework was about \$250,000.

After the drums and leave the furnace, the drums are shot blasted and then coated. The tight head drums are coated on the outside (exterior coating) and the open head drums are coated on the outside and inside (interior coating). The lids are coated and then glue-based cover gaskets are put on the lids. Mr. Fiegura said that the paints are water-based, and solvents are used for cleaning guns, spray booths, etc. He claimed that no solvents are added to the coatings. When the facility switches colors, they use a combination of the mixing colors to paint the bottoms of the drums. The facility doesn't need to flush between colors because the coatings are water-based. Mr. Fiegura told us that only the open-head have liner coatings. Clear primer is used in both plants and is put on before the paint.

Record Review

During the morning discussion, We requested several types of records.

Ms. Hamsing explained that the Title 5 permit for IFCO requires the company to keep several types of records including, among other things, coating usage and formulation data, VOC data sheets, VOC emission calculations from the furnace, and maintenance records for the furnace and coating line filters.

First, we asked to see usage, VOC data and MSDS records for all coatings and adhesives used at the facility for the past five years. Ms. Williams brought several of these types of records with her when she arrived at the

facility.

Mr. Fiegura informed us that many of the records are kept off-site by Ms. Williams. The daily coating (not adhesive) usage is determined via inventory records and a measuring dipstick. The employees bring the daily written-in inventory sheets to Ms. Hansen-Dalicandro who enters them in the computer. The computer data is provided to Ms. Williams. IFCO provided some example written-in inventory records for the tight head plant, open head plant and lining department from February 2001. This was the most recent data that the facility had on hand at the inspection and the data had not yet been entered into the computer. The facility provided coating usage data for January 2001 which was generated by the computer. Some of the coating VOC contents, especially for the liners, appeared high.

Ms. Williams explained that she uses the MSDS for the HAP calculations and Method 24 for VOM emission calculations to develop spreadsheets in support of IFCO's annual emission reports to the Illinois EPA. The annual emission report spreadsheet data covers emissions and usage from coatings and solvents but not the furnace or adhesives. The annual emission report spreadsheet is broken down into open-head and tight-head, inside and outside coating, with the primer listed separately. Ms. Williams said that she knows that they have annual emission report spreadsheet data for the last three years, but isn't sure about years prior. During the inspection, IFCO submitted the annual emission report spreadsheet data for years 1999 and 1998. Ms. Williams submitted her written notes of the calculations for the 1999 AER. IFCO also submitted the actual annual emission report of total emissions for years 1997, 1998, and 1999; however, the 1997 report did not have coating usage and formulation data included in it. The facility submitted ERMS coating data spreadsheets for 1996 and 1997. This data does not cover the entire calendar year but just the ERMS season.

Mr. Fiegura stated that the gasket adhesives usage is determined monthly, using inventory records. There are two different adhesives used on the gasket line. The higher VOC content adhesive is for one customer who uses a harsher product. According to Mr. Fiegura, IFCO no longer has that customer, or uses that adhesive. According to IFCO's Title 5 permit, one of the gasket adhesives may be out of compliance. We received copies

of adhesive consumption for the year 2000.

With respect to MSDS and VOC data sheets, IFCO said that they were not sure if they had a complete set of MSDS/VOC data sheets. They have several coating suppliers including Valspar, Rework, Morton, KNS, and Federated. After much scrambling around for information, the facility ended up supplying us with copies of VOC data sheets for the exterior coatings, MSDS for two adhesives, MSDS for three liner coatings, and a VOC sheet for one liner coating.

IFCO agreed to send us at a later date, a complete list of coatings and VOC materials used at the facility in the past 5 years, their VOC data sheets and MSDS and annual emission reports for years 1995 and 1996.

Regarding the furnace emissions, Ms. Hamsing requested the following records required under Title 5: the amount of drums and lids cleaned in each furnace; and the monthly and aggregate annual VOM emissions from the furnace based on the number of drums and lids cleaned and the applicable emission factors, with supporting calculations.

Mr. Fiegura indicated that the facility does not keep the records in the form required by Title 5 (e.g., amount of drums and lids cleaned in each furnace and the monthly and aggregate annual VOM emissions from the furnace). Ms. Williams says that she figures out VOM emissions from the burner once per year using the emission factor in the permit. Ms. Williams stated that the Industry Standard Manual reports 2.2 lb/drum as the standard to measure emissions. The facility provided copies of its Title 5 maximum and typical (but not actual) emission calculations for the furnace.

We requested afterburner temperature data for the last year. Mr. Wilcox explained that for the temperature calculations, there are three zones. The secondary does most of the work, and the afterburner zone is for emission control. He keeps an operating run-log, which pertains mostly to the furnace. The run-log accounts for all of the downtime. During the inspection, we observed temperature data for the past week and there were dips below 1600 degrees F. We obtained copies of the operating run-log to take with us from the inspection.

We requested the container acceptance policy and the

records kept of unacceptable drums. This information was provided and Mr. Wilcox commented that he only recently started keeping records documenting unacceptable drums.

Ms. Hamsing requested the number of drums burned per day and the affected furnace. Mr. Wilcox stated that he operates at 8 drums per minute. There is always a 1 to 1 ratio of drums to lids. Mr. Wilcox said that the rate used to be faster but was slowed to 8 drums per minute after the upgrade to improve the burn. The facility provided actual drum production data from the facility since October 1995. According to the facility, there is an automatic counter on the wall of the furnace that an employee reads every day and reports to Ms. Hansen-Dalicandro. On the number of drums recording sheet, covers=covers lined, and the facility assumes that the covers painted are 1:1 with the drums.

We requested all stack tests conducted on the afterburner and the facility provided a copy of a stack test conducted on the afterburner in 1984.

Mr. Wilcox said that he also keeps inspection and maintenance records on the furnace and dust collectors. Specifically, he keeps a maintenance log of what people should work on during the 2nd shift. He just started keeping these records recently. We obtained copies of all the inspection and maintenance records he has kept so far.

IFCO mentioned that compliance with the City Order was supposed to start in November, but the facility didn't start complying with the Order until January due to training.

Ms. Hamsing stated that we would like copies of the original construction permits. Ms. Williams said that she retained the originals, and that she would send us copies. During the inspection, we obtained a copy of the construction permit for the new facility in McCook, which hasn't initiated construction.

Finally, Ms. Hamsing inquired about the Notice of Violation (NOV) that was issued by Illinois EPA a few years back. Ms. Williams told us that it was a problem with Illinois EPA having information about the facility listed under the name ACME Barrel and Palex, so neither set of records were complete. The NOV was dropped when the name change difficulties were cleared up. Ms.

Hamsing stated that we would like copies of the company's answer to the Illinois EPA NOV.

Inspection

12:50- Open-head Plant Yard

The odor and the smoke that was observed earlier in the morning had improved a great deal. We entered the open-head plant yard on the Oakley Street side of the facility. Mr. Fiegura was in charge of leading us through the facility, but Ms. Hansen-Dalicandro and Ms. Williams also attended the walk-through. Mr. Fiegura explained that the workers take the description labels off of the drum after refurbishing it. At the end of the day, they send the plastic drums that come in off-site. They take the barrels off of the truck and set them in the yard, and then load them onto the conveyor joining barrels from the tight-head plant that have been cut into open-head drums.

1:00- Open-head Plant Yard and Furnace

A truck arrives with a shipment of barrels that are ready to be cleaned. Ms. Hamsing noticed a drum already on the conveyor with no label. According to Mr. Fiegura, this drum had gone through the furnace already, but was deemed not clean enough-however, it was impossible to verify this. Ms. Hansen-Dalicandro pointed out that some of the drums that were already on the line could be from another truck unloading at another part of the plant. Ms. Hamsing lifted the lid off of another drum, and a large amount of gas came out that had a strong odor. Ms. Hamsing said that this container did not appear to be "RCRA empty." There were two drums present in the reject area. There are a lot of odors near the drums on the conveyor belt.

Shortly after the truck arrived the burner chain broke, so the men unloading the truck put barrels on the conveyor basically for our benefit. The spacing between the drums appeared to be about six to eight inches. Some of the drums didn't have labels on them because the customer and their product is known. There is a large bin next to the furnace for burner ash. The afterburner for the lid furnace does not have process controls.

After awhile the conveyor started up again and we moved by the furnace. The drum furnace supposedly operates

under negative pressure and yet there was panelling coming off of the unit and a lot of gas was exiting through various holes, particularly at the entrance where the drums are loaded. The facility said that they put the process controls on the drum afterburner about 5 to 8 years ago. When the drums are burned, they exit the furnace at about 1200 degrees Fahrenheit. There is a watering system for the conveyor chain so that it doesn't melt in the furnace. There are spray nozzles at the back end of both furnaces to cool the drums and lids. There is a man at all times at the rear of the main furnace that visually inspects the drum for cleanliness, and he decides whether or not the drum needs to be sent through again. Ms. Hamsing took pictures of the yard as seen from Oakley Street, the barrels in the yard, men about to unload a truck, the lid furnace, drums exiting the burner, and the spray nozzles at the furnace exit.

2:05- Shotblasting

We then entered the building to view the shotblasting process that cleans the interior of the drum. There was an extreme odor inside the building. The drums entered the shotblasting machine on a conveyor, and Ms. Hamsing took a picture of the process.

2:15- Manually Loaded Spray-booths

Mr. Fiegura explained to us that there are two exterior painting spray-booths. The color change is used to paint the bottom of the drums. The filters are changed once a day. After the drums are painted they go into an oven to dry. Ms. Hamsing took a picture of the process.

2:20- Adhesive Line

A person manually coats the rim of the lid with an adhesive that is applied with a pressured gun. Then a rubber ring is placed on the adhesive. Ms. Hamsing took a picture of the process.

2:25- Lining

The interior of the drums are painted automatically, similar to the exterior coating line. The lining of the covers is done manually. Ms. Hamsing took a picture of the automatic lining process.

In summary of the inside of the building, there are:

- 2 exterior booths
- 2 lining(interior) booths
- 2 exterior cover booths
- 2 lining cover booths
- 1 adhesive unit

Closing Comments

We requested them to send us the following information:

complete list of coatings and VOC containing materials used in the past 5 years, including dates (month and year) of any that were discontinued, copies of MSDS and VOC data sheets;

List of current coatings and VOC containing materials used;

Mr. Wilcox's 2nd shift maintenance book;

Construction Permits;

1995 and 1996 annual emission reports (submitted 1996 and 1997);

answers to the Illinois EPA NOV; and

Copy of the burner rebuild data.

IFCO told us that they would send us the documents by the end of the week starting March 5th.

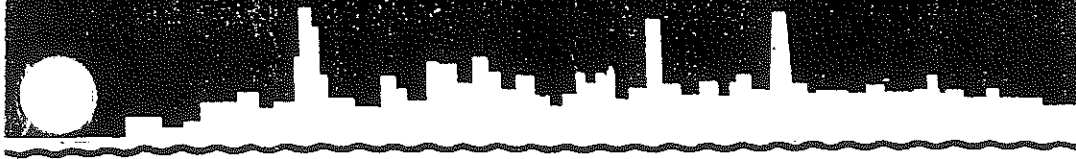
Ms. Hamsing agreed to give them some exiting comments. She shared that the inspection was based on complaints received. She told them that their records should be on-site. They should have started some of their inspections and record keeping a long time ago. They don't appear to have Method 24 data for all of their coatings and adhesives and some may be out of compliance. The temperature appears to fall below 1600 degrees. She also told them that we are going to be looking at all of their records more carefully, as well as some SIP rules, especially Subpart TT. Capture may not be adequate. PSD could apply. We were told that if we had anymore questions we should contact Mr. Fiegura.

standard bcc's: official file copy w/attachment(s)
 originator's file copy w/attachment(s)
 originating organization reading file
 w/attachment(s)

other bcc's: L. Penson, (AE-17J) (w/o attachments)

Creation Date:	January 15, 2002
Filename:	F:\USER\LHAMSING\IFCO\inspecti on report.wpd
Legend:	ARD:AECAB:AECAS(IL/IN): S. Dauk

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET

CHICAGO, ILLINOIS 60611-2803

312 / 751-5600

5/16/98
BOARD OF COMMISSIONERS

Terrence J. O'Brien
President

Kathleen Therese Meany
Vice President

Gloria Alitto Majewski
Chairman of Finance

Frank E. Gardner

Susan L. Kelsey

James W. "Tod" Miles

Cynthia M. Santos

Patricia Young

Harry "Bus" Yourell

INDUSTRIAL USER DISCHARGE AUTHORIZATION

User Number: 10933

Discharge Authorization No. 10933-2

In accordance with the provisions of Appendix D of the Sewage and Waste Control Ordinance (Ordinance) of the Metropolitan Water Reclamation District of Greater Chicago (District),

Acme Barrel Company
2300 West 13th Street
Chicago, Illinois

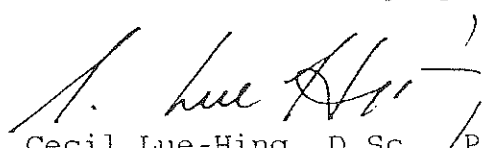
is hereby authorized to discharge process wastewater from the above identified facility and through the outfalls identified herein into the sewerage system of the District, in accordance with the conditions set forth in this authorization and the Ordinance. Compliance with this authorization does not relieve the discharger of its obligation to comply with any standards or requirements under local, state and federal laws, including any such regulations, standards, requirements or laws that may become effective during the term of this authorization.

Noncompliance with any term or condition of this authorization shall constitute a violation of the Ordinance and may constitute grounds for revocation of this authorization.

This authorization shall become effective on May 6, 1998 and shall expire at 11:59 p.m. on April 30, 2003.

If the discharger wishes to continue to discharge after the expiration date of this authorization, an application must be filed for a renewal authorization in accordance with the requirements of Appendix D of the Ordinance, a minimum of 90 days prior to the expiration date.

Witnessed: May 6, 1998
Metropolitan Water Reclamation
District of Greater Chicago
Hugh H. McMillan
General Superintendent

By: 
Cecil Lue-Hing, D.Sc., P.E.
Director
Research and Development

SECTION A: SPECIAL CONDITIONS

Special Condition 1: The wastewater discharges from the facility measured at the sampling points indicated by the outlet numbers shall not exceed the following limits:

Outlet No.*	Regulated Process	Average Flow (GPD)	Maximum Flow (GPD)	Flow Type**
4A	NONE	0	0	N
7A	NONE	0	0	N

Outlet No.*	Unregulated Process	Average Flow (GPD)	Maximum Flow (GPD)	Flow Type**
4A	RINSE/COOLING WATER	42,000	75,000	C
7A	NONE	0	0	N

Outlet No.*	Dilutional	Average Flow (GPD)	Maximum Flow (GPD)	Flow Type**
7A	COOLING/SANITARY	30,000	31,000	C

***Total Plant Flow

72,000 106,000

* The Outlet Number corresponds to the numbered sampling point identified by the District and described in Special Condition 2. Outlets designated by the letter "Z" are sanitary wastewater discharges which are not routed through existing sampling points. Outlets designated by the letter "B" represent discharges to a waterway and are regulated under Appendix A of the Sewage and Waste Control Ordinance.

** Flow Type Code: B = Batch, C = Continuous, N = None

*** Final outlets only

Special Condition 2: The wastewater discharges from the facility shall be sampled at the following sampling points:

Outlet No.	Descriptive Location of Sampling Point
4A	50 FT INSIDE BLDG, NEAR BARREL CLEANING, AT 2327 W. OGDEN
7A	MANHOLE IN SIDEWALK AT 2300 W. 13TH STREET

The discharger shall sample at each of these sampling points for a minimum of 3 days within a two-week period and shall submit the analytical results of the samples together with the Continued Compliance Reports due on or before the following dates of each year:

*** June 1 and December 1 ***

Sampling points which do not contain either regulated or unregulated process wastewater, as established on page 2 of this Discharge Authorization, are exempt from the sampling requirements of the Continued Compliance Report, provided that a certification is submitted with each Continued Compliance Report. The certification must be on company letterhead and signed by a company official, attesting that at no time during the reporting period was process wastewater discharged through the sampling points for which the sampling exemption is requested.

Special Condition 3: The discharge limitations applicable for the outlet numbers indicated in Special Conditions 2 and 3 are listed in the following page(s). Failure to maintain compliance with these limitations at all times is considered a violation of this Discharge Authorization and the Ordinance.

User Number: 10933

Discharge Authorization No. 10933-2

SPECIAL CONDITION 3 : DISCHARGE LIMITATIONS

Outlet Number: 4A Final Outlet: Yes

Location: 50 FT INSIDE BLDG, NEAR BARREL CLEANING, AT 2327 W. OGDEN

Nature of Flows	Average GPD	Maximum GPD
-----	-----	-----
Regulated	0	0
Nonregulated	42,000	75,000
Dilutional	0	0
-----	-----	-----
Total	42,000	75,000

Regulated Category: NON-CATEGORICAL

40 CFR Part:

Subcategory:

Production Based: No

Production Rate:

Combined Waste Formula Applied: No

LOCAL LIMITS

Parameter*	Daily Max	Monthly Average	Parameter*	Daily Max	Monthly Average
-----	-----	-----	-----	-----	-----
CN	5.0		Ag		
CN (amen)			As		
F O G	250		Ba		
F			Cd	2.0	
NH3-N			Cr	25.0	
P			Cr+6	10.0	
Phenol			Cu	3.0	
pH*	5-10		Fe	250	
S			Mn		
Oil&Grease			Ni	10.0	
Naphthalene			Pb	0.5	
Perchlor			Se		
PCP			Sb		
TCP			Zn	15.0	
TTO_1**			Hg	.006	.003
TTO_2**			Total Metals***		

* All parameters in MG/L except pH is in pH units.

** Total Toxic Organics is the summation of all quantifiable values greater than 0.01 mg/L for the attached toxic organics (list attached, if applicable).

*** Total metals is the sum of the concentration or mass of copper, nickel, total chromium, and zinc.

Effective Date: 6-May-1998

3-4A

User Number: 10933

Discharge Authorization No. 10933-2

SPECIAL CONDITION 3 : DISCHARGE LIMITATIONS

Outlet Number: 7A Final Outlet: Yes

Location: MANHOLE IN SIDEWALK AT 2300 W.13TH STREET

Nature of Flows	Average GPD	Maximum GPD
Regulated	0	0
Nonregulated	0	0
Dilutional	30,000	31,000
Total	30,000	31,000

Regulated Category: NON-CATEGORICAL

40 CFR Part:

Subcategory:

Production Based: No

Production Rate:

Combined Waste Formula Applied: No

LOCAL LIMITS

Parameter*	Daily Max	Monthly Average	Parameter*	Daily Max	Monthly Average
CN	5.0		Ag		
CN (amen)			As		
F O G	250		Ba		
F			Cd	2.0	
NH3-N			Cr	25.0	
P			Cr+6	10.0	
Phenol			Cu	3.0	
pH*	5-10		Fe	250	
S			Mn		
Oil&Grease			Ni	10.0	
Naphthalene			Pb	0.5	
Perchlor			Se		
PCP			Sb		
TCP			Zn	15.0	
TTO_1**			Hg	.006	.003
TTO_2**			Total Metals***		

* All parameters in MG/L except pH is in pH units.

** Total Toxic Organics is the summation of all quantifiable values greater than 0.01 mg/L for the attached toxic organics (list attached, if applicable).

*** Total metals is the sum of the concentration or mass of copper, nickel, total chromium, and zinc.

Effective Date: 6-May-1998

3-7A

Special Condition 4: The discharger is required to comply with all the conditions specified in the subsequent Sections B through H (for a ready reference, the salient features of these sections are listed below):

1. Section B, pages 6 through 9, details the conditions applicable to the modification, transferability, renewal, and revocation of this Discharge Authorization.
2. Section C, pages 9 through 11, details the conditions applicable to the introduction of new pollutants or increased flows, threatening discharges, uncontrolled wastes, and changes to the drainage layout.
3. Section D, pages 11 through 12, details the general conditions to monitoring methods and facilities necessary to determine compliance with the criteria or water quality standards of the District.
4. Section E, pages 13 through 16, details the general discharge standards and prohibitions applicable to all the dischargers within the District's jurisdiction.
5. Section F, pages 16 through 17, details the discharger's obligations regarding self-monitoring and self-reporting.
6.
 - a. Section G, pages 17 through 19, details the requirement applicable to reporting the generation and disposal of production residues or sludges.
 - b. Section G, pages 19 through 20, details the requirements applicable to reporting of spills, malfunctions, bypasses, and slug loadings.
 - c. Section G, pages 20 through 24, details requirements applicable to the preparation and submittal of Discharge Authorization Requests, Compliance Schedule(s), and Final Compliance Reports.
7. Sections H and I, pages 24 through 28, detail the administrative and legal remedies pursued by the District in cases of violation of this Discharge Authorization or the Ordinance.
8. Section J, page 30, details the District's policy regarding the confidentiality of information, and the District's obligation to publish annually a list of significant violators.

User Number: 10933

Discharge Authorization No. 10933-2

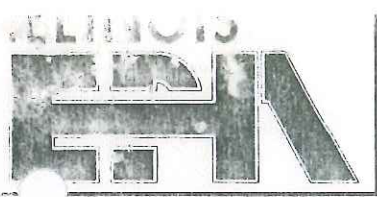
9. At the time of issuance of this Discharge Authorization, you were subject to the following unresolved enforcement action(s) issued by the District. A return to compliance with the Ordinance was(is) required by the date indicated.

Enforcement Action No.	Date Issued	Reason for Enforcement Action	Compliance Date
-----	-----	-----	-----
NONE			

Your return to compliance is subject to verification by the District through inspection and/or sampling conducted subsequent to the compliance date. Failure to comply on or before the above indicated date(s) shall be considered a reasonable basis for the General Superintendent to order your company to Show Cause before the Board of Commissioners why your prohibited activity or conduct should not be stopped and/or why appropriate sanctions and penalties provided by the Ordinance should not be imposed.

Effective Date: 6-May-1998

4-B



Environmental Protection Agency

1701 S. First Street Maywood, IL. 60153

312/345-9780

953

Refer to: 03166102 - Cook County - Chicago/Acme Barrel Co.
ILD025022997

November 12, 1982

Acme Barrel Company
2300 W. 13th Street
Chicago, Illinois 60608

Attn: R. Meyer

Dear Mr. Meyer:

An inspection of your facility was conducted by a representative of the Illinois Environmental Protection Agency (IEPA) on October 20, 1982. The purpose of the inspection was to determine your facility's compliance with the Environmental Protection Act, Ill. Rev. Stat. 1982, Ch. 111 1/2, pars. 101 et seq., as amended, and regulations adopted by the Illinois Pollution Control Board.

Pursuant to 35 Ill. Adm. Code 725.116, the owner/operator is required to establish and maintain records relating to the training of personnel involved in hazardous waste management, including a description of the job title for each position at the site, a written job description, a description of training and records detailing the training given to each such individual. You are in apparent violation of 35 Ill. Adm. Code 725.116 for the following reasons: The above described records had not been prepared.

Requirements contained in 35 Ill. Adm. Code 725.153 were not complied with in that copies of the contingency plan were not submitted to local emergency response organizations.

You are hereby requested to submit to this office, within 15 days of receipt of this letter, a description of steps taken to correct the apparent violations described in this letter. Failure to correct these apparent violations may result in enforcement actions. Please send your reply to the above address. Should you have any questions concerning this matter, please contact Cliff Gould of my staff at the above number.

In addition, since your facility is not regulated as a transporter under 35 Ill. Adm. Code 720 through 725, we recommend that you submit a letter to the Illinois Environmental Protection Agency at the above address requesting that your EPA Form 8700-12 be withdrawn. A copy of this letter should be sent to USEPA Region V, RCRA Activities, P.O. Box 7861, Chicago, Illinois 60680.

Please be advised that the State of Illinois continues to regulate special wastes under the provisions of the Illinois Environmental Protection Act and regulations adopted by the Illinois Pollution Control Board. It has been determined that you are a generator of special waste(s) as defined in the Act. You will continue to be subject to the provisions of the Act and the rules and regulations adopted thereunder.

Sincerely,



Kenneth P. Bechely, Northern Region Manager
Field Operations Section
Division of Land Pollution Control

KPB:CG:prb

Enclosures: Inspection Report & Regulations

cc: Division File
Northern Region
U.S. E.P.A. - Region V

0623 SWH

0316000135G-103166102

STATE IDENTIFICATION NUMBER
(If Applicable)

ILD 025022997
EPA IDENTIFICATION NUM

RCRA INSPECTION REPORT - INTERIM STATUS STANDARDS
TREATMENT, STORAGE, AND DISPOSAL FACILITIES
Form A - General Facility Standards

#953

I. General Information:

- (A) Facility Name: Acme Barrel Company
- (B) Street: 2300 W. 13th Street
- (C) City: Chicago (D) State: IL (E) Zip Code: 60608
- (F) Phone: 312/829-3838 (G) County: Cook
- (H) Operator: Acme Barrel Company
- (I) Street: 2300 W. 13th Street
- (J) City: Chicago (K) State: IL (L) Zip Code: 60608
- (M) Phone: 312/829-3838 (N) County: Cook
- (O) Owner: American Nat. Bank & Trust - Trust No. 38159
- (P) Street: 33 N. La Salle Street
- (Q) City: Chicago (R) State: IL (S) Zip Code: 60602
- (T) Phone: 312/661-5000 (U) County: Cook
- (V) Date of Inspection: Oct. 20, 1982 (W) Time of Inspection (From) 11:30am (To) 1:15pm
- (X) Weather Conditions: Cloudy 38°F

(Y)	Person(s) Interviewed	Title	Telephone
	<u>Ronald C. Meyer</u>	<u>Comptroller</u>	<u>312/829-3838</u>
	_____	_____	_____
	_____	_____	_____
(Z)	Inspection Participants	Agency/Title	Telephone
	<u>Clifford Gould</u>	<u>EPA/EPs</u>	<u>312/345-9780 x290</u>
	_____	_____	_____
	_____	_____	_____
(AA)	Preparer Information		
	Name	Agency/Title	Telephone
	<u>Clifford Gould</u>	<u>EPA/EPs</u>	<u>312/345-9780 x290</u>

II. SITE ACTIVITY:

Complete sections I through VII for all treatment, storage, and/or disposal facilities. Complete the forms (in parenthesis) in section VIII corresponding to the site activities identified below:

- | | |
|---|---|
| <p><u>X</u> A. Storage and/or Treatment</p> <p>1. Containers (I)</p> <p>2. Tanks (J) <u>N/A</u></p> <p>3. Surface Impoundments (K) <u>N/A</u></p> <p>4. Waste Piles (L) <u>N/A</u></p> | <p><u>N/A</u> D. Incineration and/or Thermal Treatment (O and P)</p> |
| <p><u>N/A</u> B. Land Treatment (M)</p> | <p><u>N/A</u> E. Chemical, Physical, and Biological Treatment (Q)</p> |
| <p><u>N/A</u> C. Landfills (N)</p> | |

Note: If facility is also a generator or transporter of hazardous waste complete sections IX and X of this form as appropriate.

III. GENERAL FACILITY STANDARDS:
(Part 265 Subpart B)

	Yes	No	NI*	Remark
(A) Has the Regional Administrator been notified regarding:				
1. Receipt of hazardous waste from a foreign source?	<u> </u>	<u> </u>	<u> </u>	<u>N/A Facility does not receive haz. waste</u>
2. Facility expansion?	<u> </u>	<u> </u>	<u> </u>	<u>N/A No expansion planned</u>
(B) General Waste Analysis:				
1. Has the owner or operator obtained a detailed chemical and physical analysis of the waste?	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
2. Does the owner or operator have a detailed waste analysis plan on file at the facility?	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
3. Does the waste analysis plan specify procedures for inspection and analysis of each movement of hazardous waste from off-site?	<u> </u>	<u> </u>	<u> </u>	<u>N/A Facility does not accept waste from off-site.</u>
(C) Security - Do security measures include: (if applicable)				
1. 24-Hour surveillance?	<u>X</u>	<u> </u>	<u> </u>	<u>Security guard + alarm system</u>
2. Artificial or natural barrier around facility?	<u>X</u>	<u> </u>	<u> </u>	<u>Fence & building walls.</u>
3. Controlled entry?	<u>X</u>	<u> </u>	<u> </u>	<u>Gates & building doors are locked.</u>
4. Danger sign(s) at entrance?	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
(D) Do Owner or Operator Inspections Include:				
1. Records of malfunctions?	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
2. Records of operator error?	<u> </u>	<u> </u>	<u> </u>	<u>N/A</u>
3. Records of discharges?	<u>X</u>	<u> </u>	<u> </u>	<u> </u>

*Not Inspected

III. GENERAL FACILITY STANDARDS - Continued

	Yes	No	NI*	Remarks
4. Inspection schedule?	<u>X</u>	---	---	-----
5. Safety, emergency equipment?	<u>X</u>	---	---	Done by contractor on Monthly basis
6. Security devices?	<u>X</u>	---	---	Done by contractor for alarm system
7. Operating and structural devices?	<u>X</u>	---	---	-----
8. Inspection log?	<u>X</u>	---	---	-----
(E) Do personnel training records include: (Effective 5/19/81)				
1. Job titles?	---	<u>X</u>	---	-----
2. Job descriptions?	---	<u>X</u>	---	-----
3. Description of training?	---	<u>X</u>	---	-----
4. Records of training?	---	<u>X</u>	---	-----
5. Have facility personnel received required training by 5-19-81?	---	<u>X</u>	---	-----
6. Do new personnel receive required training within six months?	---	<u>X</u>	---	-----
(F) If required are the following special requirements for ignitable, reactive, or incompatible wastes addressed? <u>N/A</u>				
1. Special handling?	---	---	---	-----
2. No smoking signs?	---	---	---	-----
3. Separation and protection from ignition sources?	---	---	---	-----

*Not Inspected

IV. PREPAREDNESS AND PREVENTION:
(Part 265 Subpart C)

(A) Maintenance and Operation
of Facility:

Is there any evidence of fire, explosion, or release of hazardous waste or hazardous waste constituent?

Yes No NI* Remarks

— X —

(B) If required, does the facility have the following equipment:

1. Internal communications or alarm systems?

X — —

Page system

2. Telephone or 2-way radios at the scene of operations?

X — —

Handi-talkie

3. Portable fire extinguishers, fire control, spill control equipment and decontamination equipment?

X — —

Shovel & lime.

Indicate the volume of water and/or foam available for fire control:

Plant is sprinklered - water from Chicago fire hydrants

(C) Testing and Maintenance of
Emergency Equipment:

1. Has the owner or operator established testing and maintenance procedures for emergency equipment?

X — —

Done by outside contractors.

2. Is emergency equipment maintained in operable conditions?

X — —

(D) Has owner or operator provided immediate access to internal alarms? (if needed)

X — —

Alarm connected to paging system

*Not Inspected

(E) Is there adequate aisle space for unobstructed movement?

X _____

V. CONTINGENCY PLAN AND EMERGENCY PROCEDURES:
(Part 265 Subpart D)

(A) Does the Contingency Plan contain the following information:

Yes No NI* Remarks

1. The actions facility personnel must take to comply with §265.51 and 265.56 in response to fires, explosions, or any unplanned release of hazardous waste? (If the owner has a Spill Prevention, Control, and Counter-measures (SPCC) Plan, he needs only to amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this Part (as applicable.)

X _____

2. Arrangements agreed by local police departments, fire departments hospitals, contractors, and State and local emergency response teams to coordinate emergency services pursuant to §265.37?

X _____

3. Names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinators?

X _____

4. A list of all emergency equipment at the facility which includes the location and physical description of each item on the list and a brief outline of its capabilities?

X _____

5. An evacuation plan for facility personnel where there is a possibility that evacuation could be necessary? (This plan must describe signal(s) to be used to begin evacuation, evacuation routes, and alternate evacuation routes?)

X _____

Contained in Site Safety plan.

*Not Inspected

V. CONTINGENCY PLAN AND EMERGENCY PROCEDURES - Continued

	Yes	No	NI*	Remarks
(B) Are copies of the Contingency Plan available at site and local emergency organizations?	<u> </u>	<u> X </u>	<u> </u>	
(C) Emergency Coordinator				
1. Is the facility Emergency Coordinator identified?	<u> X </u>	<u> </u>	<u> </u>	
2. Is coordinator familiar with all aspects of site operation and emergency procedures?	<u> X </u>	<u> </u>	<u> </u>	
3. Does the Emergency Coordinator have the authority to carry out the Contingency Plan?	<u> X </u>	<u> </u>	<u> </u>	
(D) Emergency Procedures				
If an emergency situation has occurred at this facility, has the Emergency Coordinator followed the emergency procedures listed in 265.56?	<u> </u>	<u> </u>	<u> </u>	<u>N/A No emergency has occurred at this facility relating to hazardous waste activity.</u>

VI. MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING (Part 265 Subpart E)

	Yes	No	NI*	Remarks
(A) Use of Manifest System				
1. Does the facility follow the procedures listed in §265.71 for processing each manifest?	<u> </u>	<u> </u>	<u> </u>	<u>N/A Site does not accept waste from off-site</u>
2. Are records of past shipments retained for 3 years?	<u> X </u>	<u> </u>	<u> </u>	
(B) Does the owner or operator meet requirements regarding manifest discrepancies?	<u> </u>	<u> </u>	<u> </u>	<u>N/A See (A) 1 above.</u>

*Not Inspected

VI. RECORDKEEPING - Continued

(C) Operating Record

1. Does the owner or operator maintain an operating record as required in 265.73?

X — — —

2. Does the operating record contain the following information:

- **b. The method(s) and date(s) of each waste's treatment, ~~storage, or disposal~~ as required in Appendix I?

X — — —

- c. The location and quantity of each hazardous waste within the facility?

X — — —

- ***d. A map or diagram of each cell or disposal area showing the location and quantity of each hazardous waste? (This information should be cross-referenced to specific manifest number, if waste was accompanied by a manifest.)

— — — N/A

- e. Records and results of all waste analyses, trial tests, monitoring data, and operator inspections?

X — — —

- f. Reports detailing all incidents that required implementation of the Contingency Plan?

— — — N/A No incidents.

- g. All closure and post closure costs as applicable? (Effective 5-19-81)

X — — —

** See page 33252 of the May 19, 1980, Federal Register.

*** Only applies to disposal facilities

VII. CLOSURE AND POST CLOSURE
(Part 265 Subpart G)

	Yes	No	NI*	Remarks
(A) Closure and Post Closure				
1. Is the facility closure plan available for inspection by May 19, 1981?	<u>X</u>	—	—	
2. Has this plan been submitted to the Regional Administrator	—	—	—	<u>N/A Closure not expected within 180 days of the date of this inspection</u>
3. Has closure begun?	—	—	—	
4. Is closure estimate available by May 19, 1981?	<u>X</u>	—	—	
(B) Post closure care and use of property				
Has the owner or operator supplied a post closure monitoring plan? (effective by May 19, 1981)	—	—	—	<u>N/A Treatment, no disposal</u>

VIII. FACILITY STANDARDS
(Part 265, Subparts I thru R)

I
USE AND MANAGEMENT OF CONTAINERS

Facility Name: Acme Barrel Company Date of Inspection: Oct. 20, 1982

	Yes	No	NI*	Remarks
1. Are containers in good condition?	<u>X</u>	—	—	
2. Are containers compatible with waste in them?	<u>X</u>	—	—	
3. Are containers stored closed?	—	<u>X</u>	—	<u>Not designed to be stored closed.</u>
4. Are containers managed to prevent leaks?	<u>X</u>	—	—	
5. Are containers inspected weekly for leaks and defects?	<u>X</u>	—	—	<u>More frequently.</u>
6. Are ignitable & reactive wastes stored at least 15 meters (50 feet) from the facility property line? (Indicate if waste is ignitable or reactive.)	—	—	—	<u>N/A No ignitable or reactive waste stored at the facility.</u>

	Yes	No	NI*	Remarks
7. Are incompatible wastes stored in separate containers? (If not, the provisions of 40 CFR 265.17(b) apply.)	---	---	---	N/A
8. Are containers of incompatible waste separated or protected from each other by physical barriers or sufficient distance?	---	---	---	N/A

REMARKS

Use this section to briefly describe site activities observed at the time of the inspection. Note any possible violations of Interim Status Standards.

The facility generates hazardous waste as a result of its drum reconditioning operations. The waste generated is hazardous because of EP Tox (lead).

The sludge is treated ~~to~~ with lime in a roll-off box prior to disposal at a landfill. Analysis of the treated sludge indicates that the material is no longer hazardous by characteristic.

During the inspection it was noted that the facility had not prepared written job descriptions, descriptions of the type and amount of training, documentation of training (Section 725.116(d)) and had not submitted a copy of the contingency plan to the appropriate local authority (725.153(b)).



ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS
INTER-OFFICE CORRESPONDENCE

DATE: 10/31/82

MEMO TO: File

FROM: A. Gould

SUBJECT: Cook COUNTY - D.L.P.C. Inspection

Chicago / American Lead Co.

GENERAL REMARKS:

The Cox 110 generator has been found to be in
"excellent" condition. The generator has been
burned out of down lead. The generator has
been and is being used. The generator has
been and is being used.

INTERVIEW:

The generator has been found to be in
"excellent" condition. The generator has been
burned out of down lead. The generator has
been and is being used. The generator has
been and is being used.

DIAGRAM:

LPC-19

